

ELATION®



PARAGON S

Photometric &
Chromaticity Test Reports

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Testing Procedures

Total Lumen Measurements

Lumens are measured using a Viso Systems Lab Spion. As a goniophotometer, the Viso calculates the field lumens of the fixture by taking multiple measurements across the light beam.

Many lumens figures provided for entertainment lighting fixtures are only 2π sphere values, some even emphasize the LED engine lumens. All Elation product photometric data is the actual light output from the fixture lens, never a theoretical value based on calculation or using the source lumens as the fixtures output. We advise to always compare total fixture lumens acquired with identical measurement systems when comparing lighting fixtures.

Test Lab Equipment and Process

Elation operates an optical testing laboratory at its Los Angeles, CA headquarters to provide accurate photometric data for its lighting products. The testing lab is both light and climate- controlled and contains a variety of precise lighting measurement systems. Fixtures are analyzed with the sophisticated [Viso Systems Lab Spion](#) equipment, which measures all light and color parameters by panning the light beam at a precise speed and from different angles through a calibrated, laser aligned light and color sensor. Test data is collected and summarized by the Viso Light Inspector software. This type of measurement system is referred to as a Goniophotometer.

The Viso software calculates all relevant types of measurements, from beam angles, candela to center light intensity at a variety of distances to the latest color quality measurements like TM30 or CQS as well as accurate color temperature. This wealth of data is then processed by an Elation specific template which is included in the photometric test report for various fixture conditions such as zoom angles and color correction filters.

The Viso software also creates IES (Illuminating Engineering Society) files for each test report. IES is an industry standard file format created for the easy electronic transfer of photometric test data, which is widely used by lighting manufacturers for photometric data distribution.

Additionally, fixtures are periodically rechecked for accuracy using various hand-held light meters including one or more of the devices listed below. This is done to ensure the test data contained in this report is as accurate as possible.

[Asenstek Lighting Passport](#) | [Konica Minolta T-10](#) | [Sekonic C800U](#)

Key Measurements

Output

Total Lumen Output: 17307 lm

Peak Intensity: 31439 cd

Beam

Beam Angle (50%): 41.3°

Field Angle (10%): 52°

Cutoff Angle (2.5%): 56.2°

Color

Color Temperature: 6413 K

CRI: 80.0

TLCI: 70

TM30 R_F: 79.4

TM30 R_g: 97.9

Power Details

Efficacy: 22 Lumen/Watt

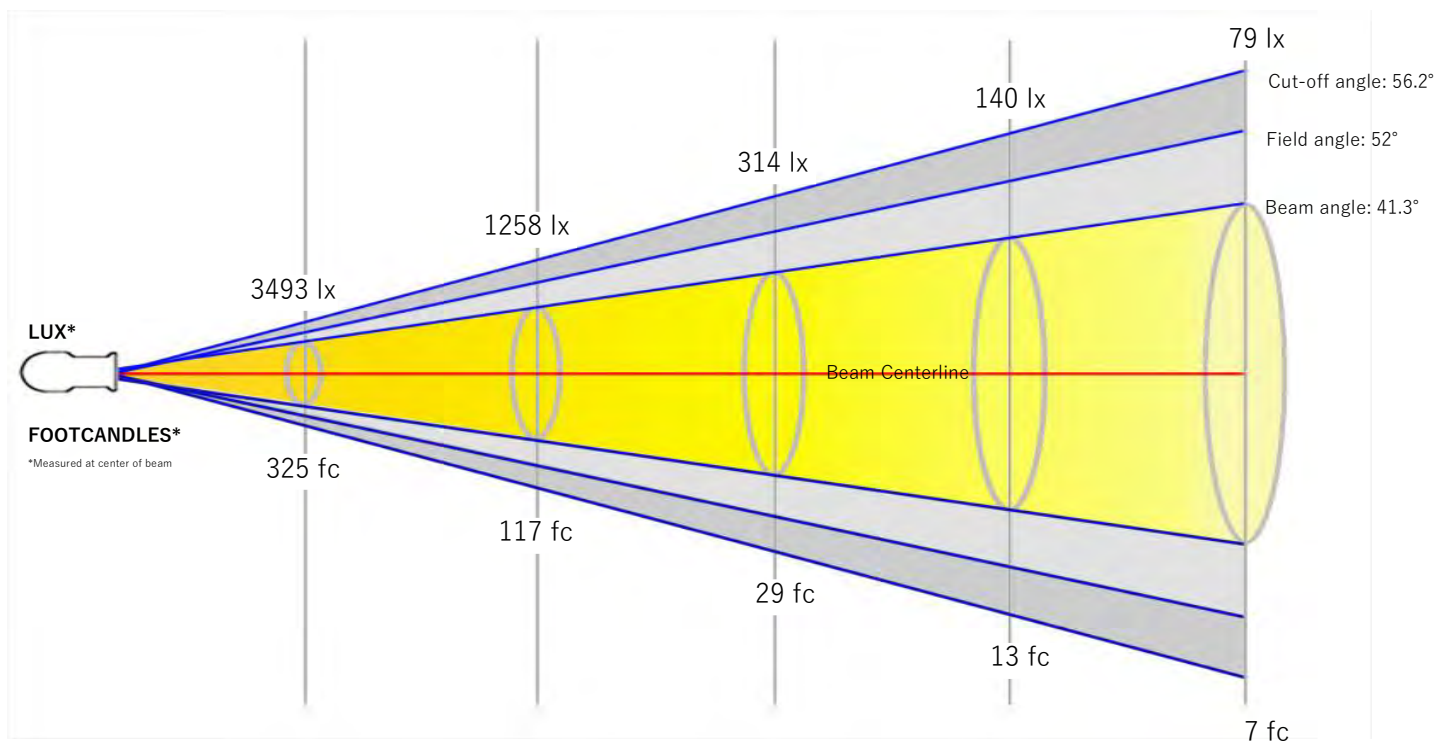
Power: 771 W

Supply Voltage: 115 V

Current: 6.70 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.3 m	3.8 m	7.5 m	11.3 m	15.1 m

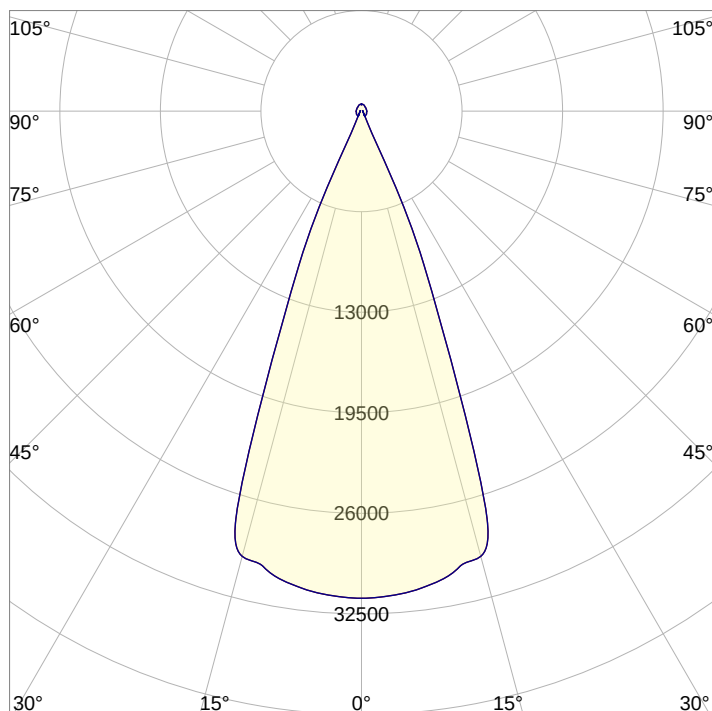


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7.4 ft	12.4 ft	24.7 ft	37.1 ft	49.4 ft

Beam Intensities from 1-20m

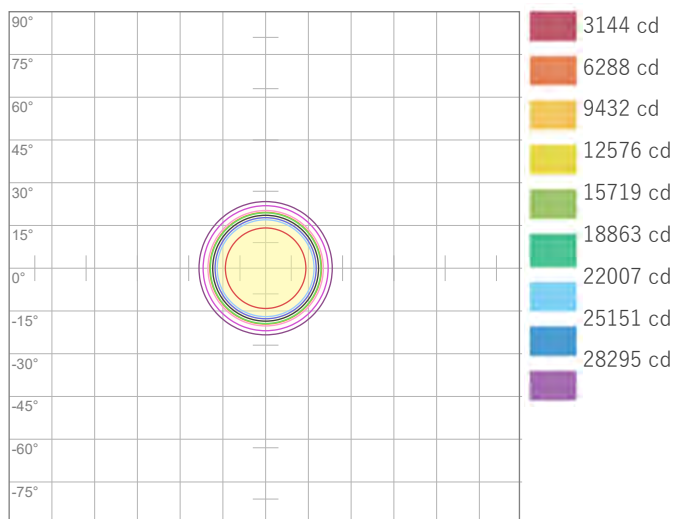
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	31439	7860	3493	1965	1258	873	642	491	388	314	260	218	186	160	140	123	109	97	87	79
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	2920.8	730.2	324.5	182.5	116.8	81.1	59.6	45.6	36.1	29.2	24.1	20.3	17.3	14.9	13	11.4	10.1	9	8.1	7.3

Angular Distribution



Beam Angle - 50%
41.3°
Field Angle - 10%
52°
Cutoff Angle - 2.5%
56.2°

ISO Diagrams

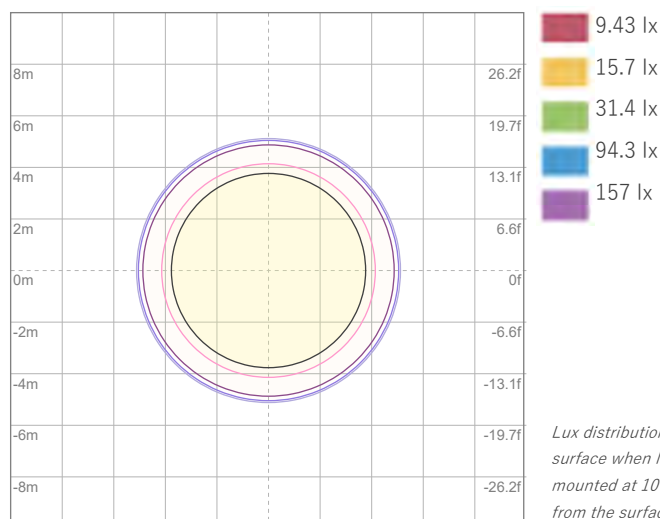


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 31439 cd



ISO LUX Diagram

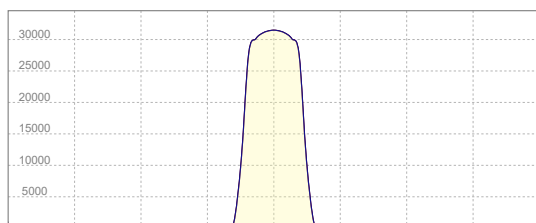
Conditions:

Number of c-planes: 8

LUX at center: 314 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
31439 cd

Calculate Center Beam Intensities

$$\text{lux} = 31439 / \text{distance(m)}^2$$

$$\text{fc} = 31439 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 15915 lm

Peak Intensity: 248104 cd

Beam

Beam Angle (50%): 14.6°

Field Angle (10%): 15.8°

Cutoff Angle (2.5%): 16.2°

Color

Color Temperature: 6318 K

CRI: 79.6

TLCI: 70

TM30 R_F: 79.2

TM30 R_g: 97.8

Power Details

Efficacy: 21 Lumen/Watt

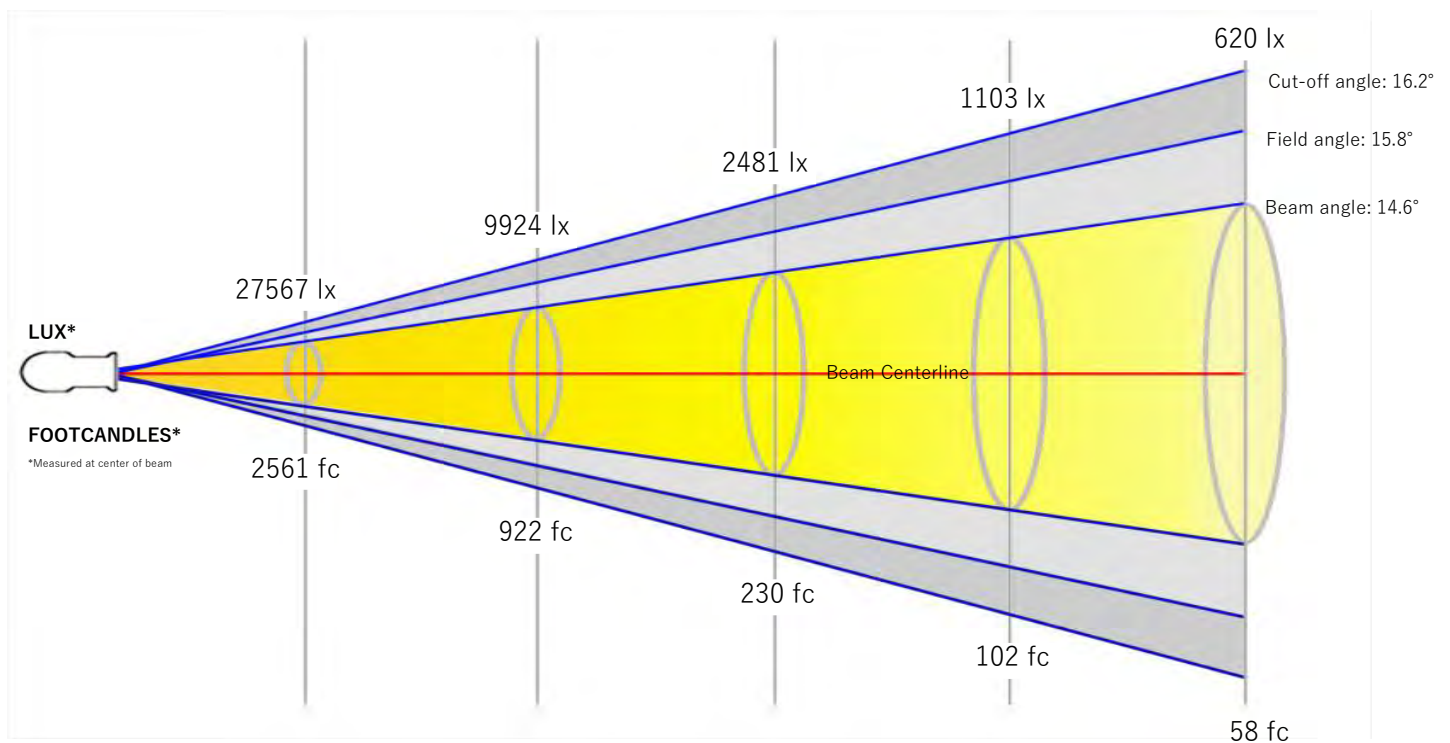
Power: 771 W

Supply Voltage: 115 V

Current: 6.70 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.8 m	1.3 m	2.6 m	3.9 m	5.1 m

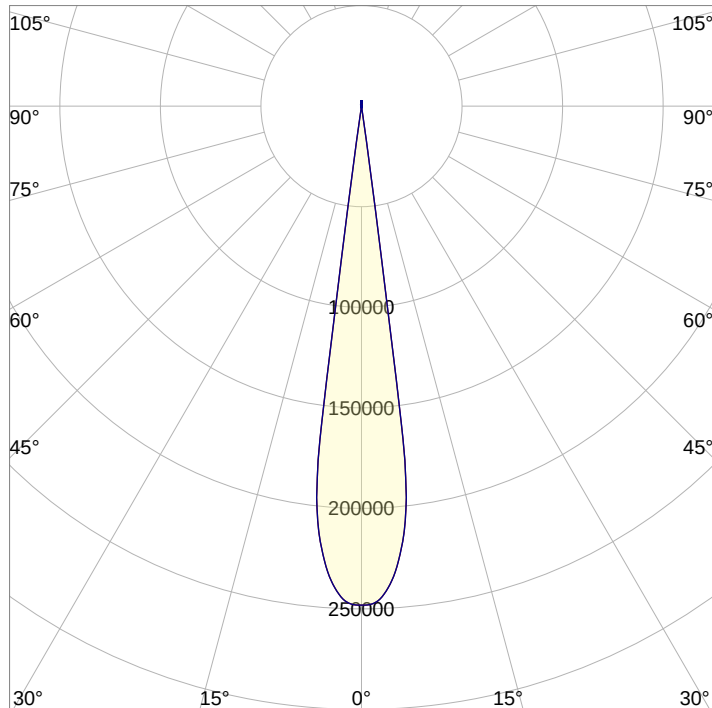


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	2.5 ft	4.2 ft	8.4 ft	12.6 ft	16.8 ft

Beam Intensities from 1-20m

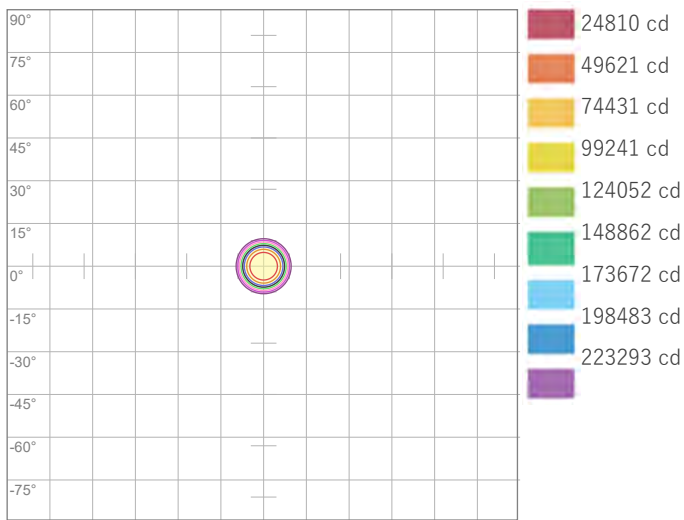
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	248104	62026	27567	15506	9924	6892	5063	3877	3063	2481	2050	1723	1468	1266	1103	969	858	766	687	620
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	23049.6	5762.4	2561.1	1440.6	922	640.3	470.4	360.1	284.6	230.5	190.5	160.1	136.4	117.6	102.4	90	79.8	71.1	63.8	57.6

Angular Distribution



Beam Angle - 50%
14.6°
Field Angle - 10%
15.8°
Cutoff Angle - 2.5%
16.2°

ISO Diagrams

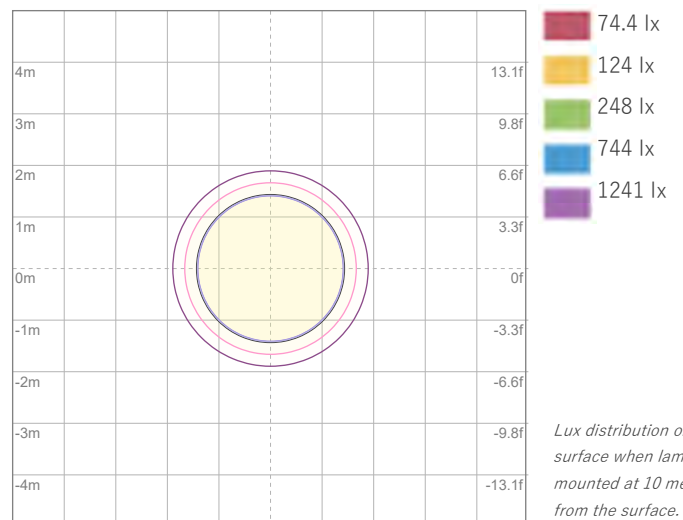


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 248104 cd



ISO LUX Diagram

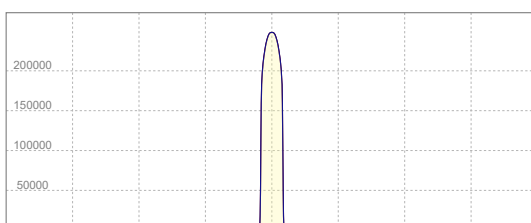
Conditions:

Number of c-planes: 8

LUX at center: 2481 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
248104 cd

Calculate Center Beam Intensities

$$\text{lux} = 248104 / \text{distance(m)}^2$$

$$\text{fc} = 248104 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 8641 lm

Peak Intensity: 1160868 cd

Beam

Beam Angle (50%): 4.1°

Field Angle (10%): 5.5°

Cutoff Angle (2.5%): 6°

Color

Color Temperature: 6291 K

CRI: 81.4

TLCI: 74

TM30 R_F: 80.8

TM30 R_g: 98.1

Power Details

Efficacy: 11 Lumen/Watt

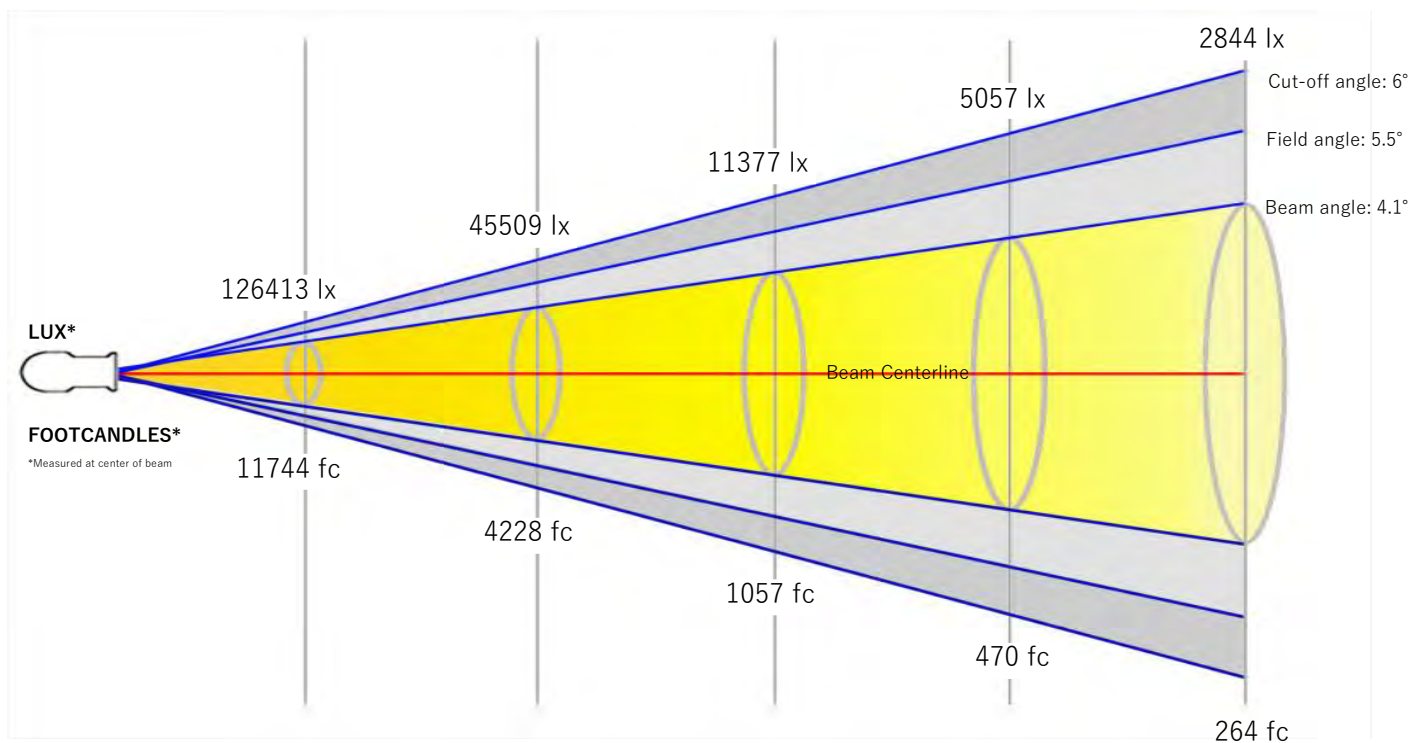
Power: 771 W

Supply Voltage: 115 V

Current: 6.70 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.2 m	0.4 m	0.7 m	1.1 m	1.4 m

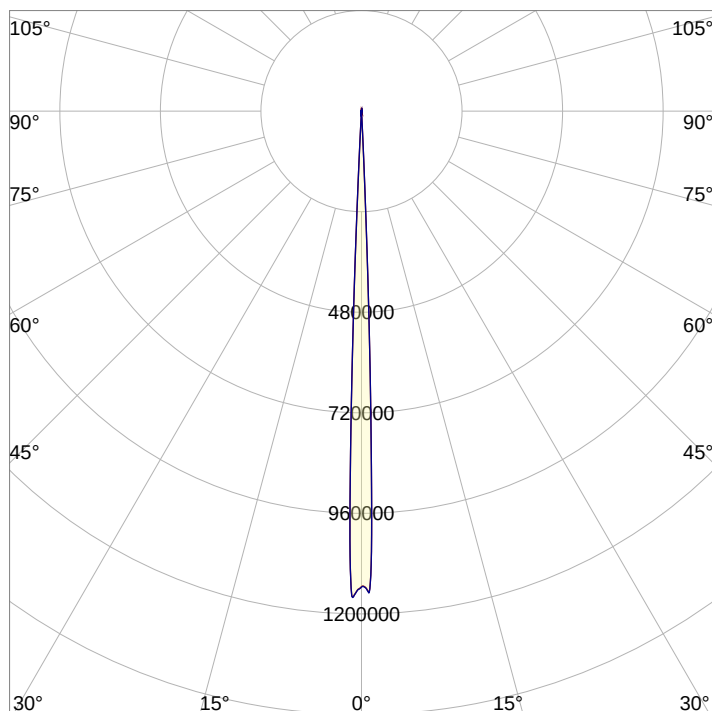


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	0.7 ft	1.2 ft	2.3 ft	3.5 ft	4.7 ft

Beam Intensities from 1-20m

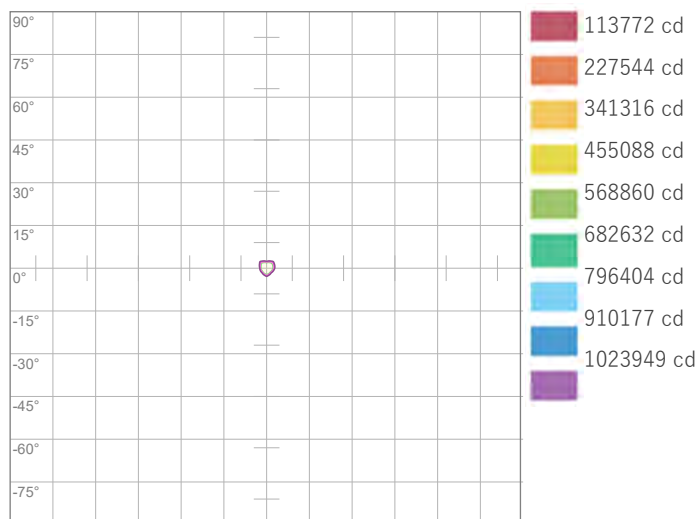
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	1137721	284430	126413	71108	45509	31603	23219	17777	14046	11377	9403	7901	6732	5805	5057	4444	3937	3511	3152	2844
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	105697.7	26424.4	11744.2	6606.1	4227.9	2936	2157.1	1651.5	1304.9	1057	873.5	734	625.4	539.3	469.8	412.9	365.7	326.2	292.8	264.2

Angular Distribution



Beam Angle - 50%
4.1°
Field Angle - 10%
5.5°
Cutoff Angle - 2.5%
6°

ISO Diagrams

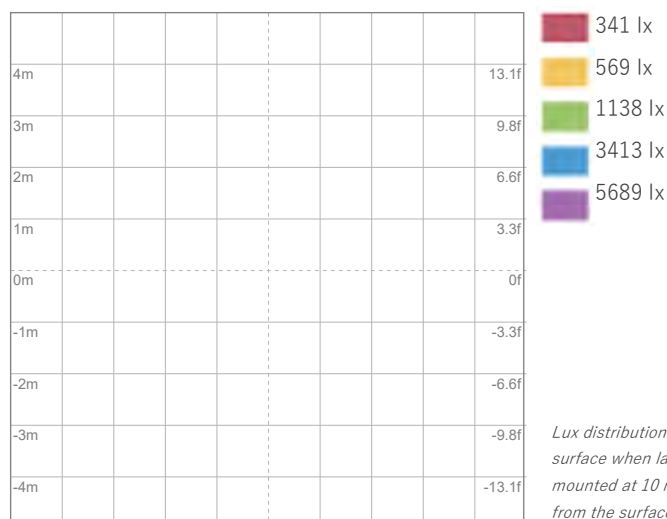


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 1137721 cd



ISO LUX Diagram

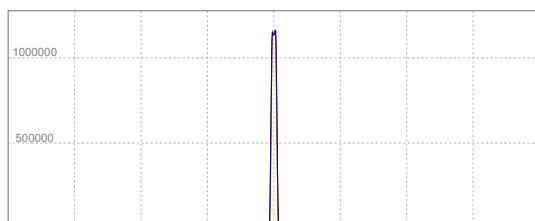
Conditions:

Number of c-planes: 8

LUX at center: 11.4k lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
1160868 cd

Calculate Center Beam Intensities

$$\text{lux} = 1160868 / \text{distance(m)}^2$$

$$\text{fc} = 1160868 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 13057 lm

Peak Intensity: 22783 cd

Beam

Beam Angle (50%): 42.6°

Field Angle (10%): 47.6°

Cutoff Angle (2.5%): 50.6°

Color

Color Temperature: 6427 K

CRI: 80.4

TLCI: 71

TM30 R_F: 79.9

TM30 R_g: 97.9

Power Details

Efficacy: 17 Lumen/Watt

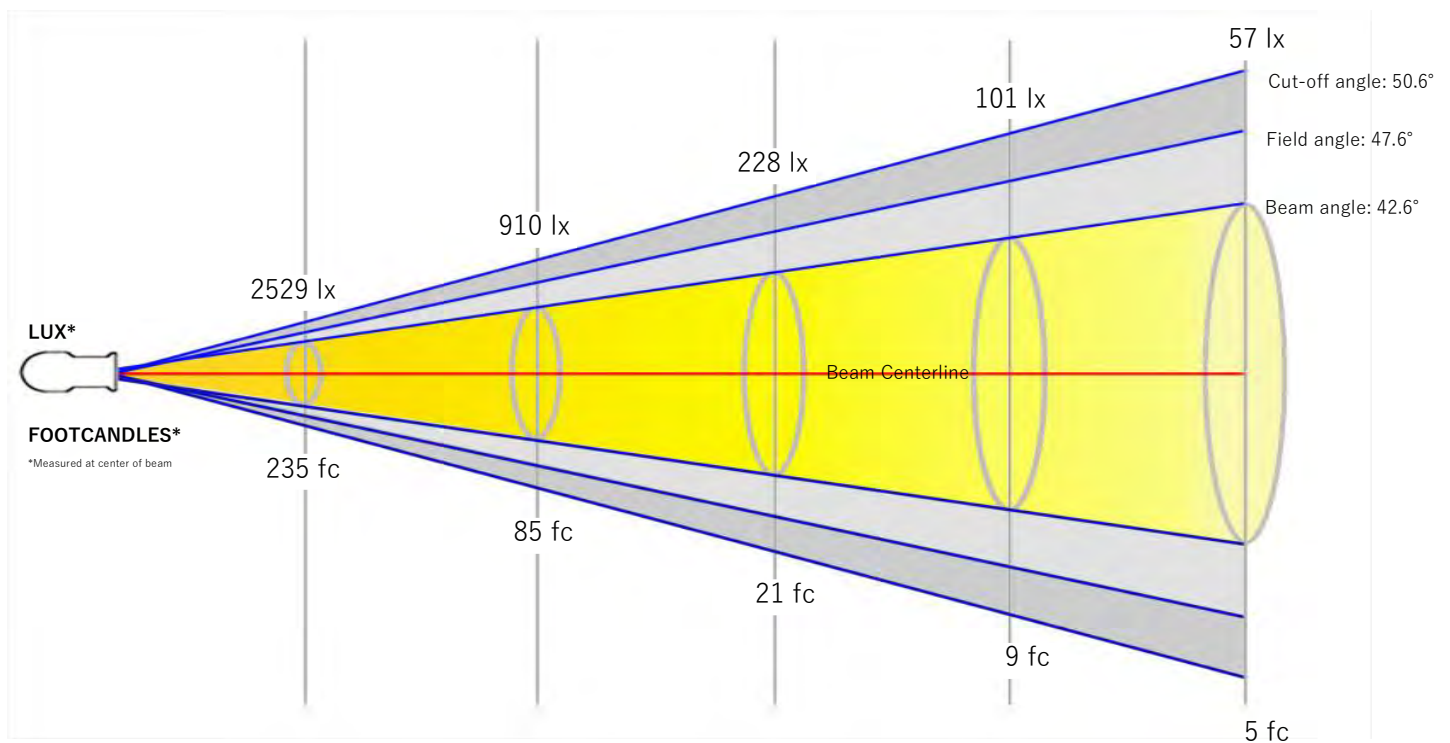
Power: 770 W

Supply Voltage: 113 V

Current: 6.81 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.3 m	3.9 m	7.8 m	11.7 m	15.6 m

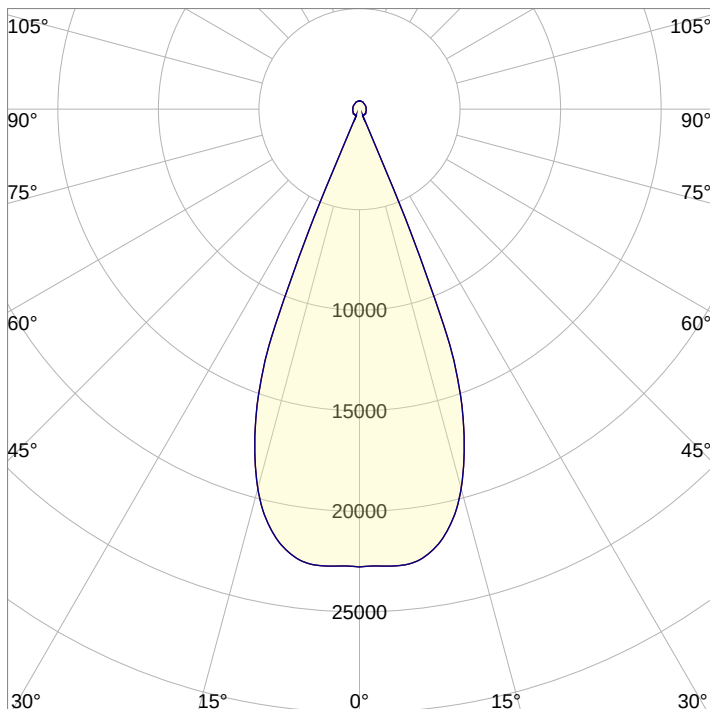


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7.6 ft	12.8 ft	25.6 ft	38.4 ft	51.2 ft

Beam Intensities from 1-20m

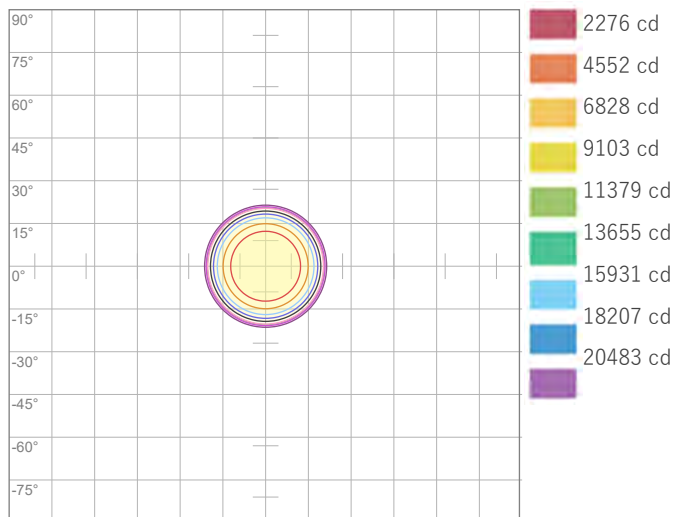
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	22759	5690	2529	1422	910	632	464	356	281	228	188	158	135	116	101	89	79	70	63	57
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	2114.3	528.6	234.9	132.1	84.6	58.7	43.1	33	26.1	21.1	17.5	14.7	12.5	10.8	9.4	8.3	7.3	6.5	5.9	5.3

Angular Distribution



Beam Angle - 50%
42.6°
Field Angle - 10%
47.6°
Cutoff Angle - 2.5%
50.6°

ISO Diagrams

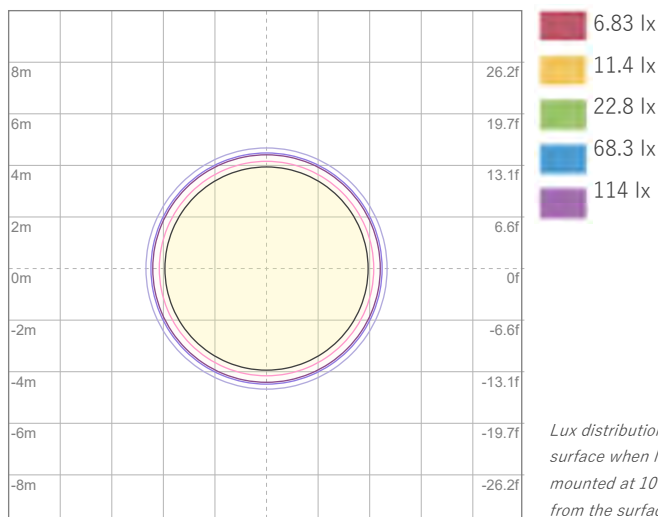


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 22759 cd



ISO LUX Diagram

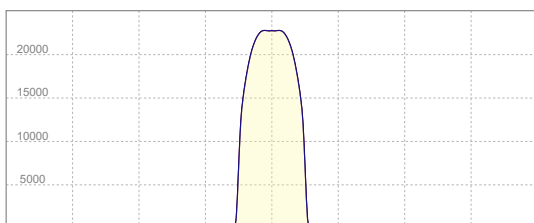
Conditions:

Number of c-planes: 8

LUX at center: 228 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
22783 cd

Calculate Center Beam Intensities

$$\text{lux} = 22783 / \text{distance(m)}^2$$

$$\text{fc} = 22783 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 10574 lm

Peak Intensity: 149749 cd

Beam

Beam Angle (50%): 13.9°

Field Angle (10%): 17.3°

Cutoff Angle (2.5%): 18.5°

Color

Color Temperature: 6242 K

CRI: 80.1

TLCI: 72

TM30 R_F: 79.9

TM30 R_g: 97.6

Power Details

Efficacy: 14 Lumen/Watt

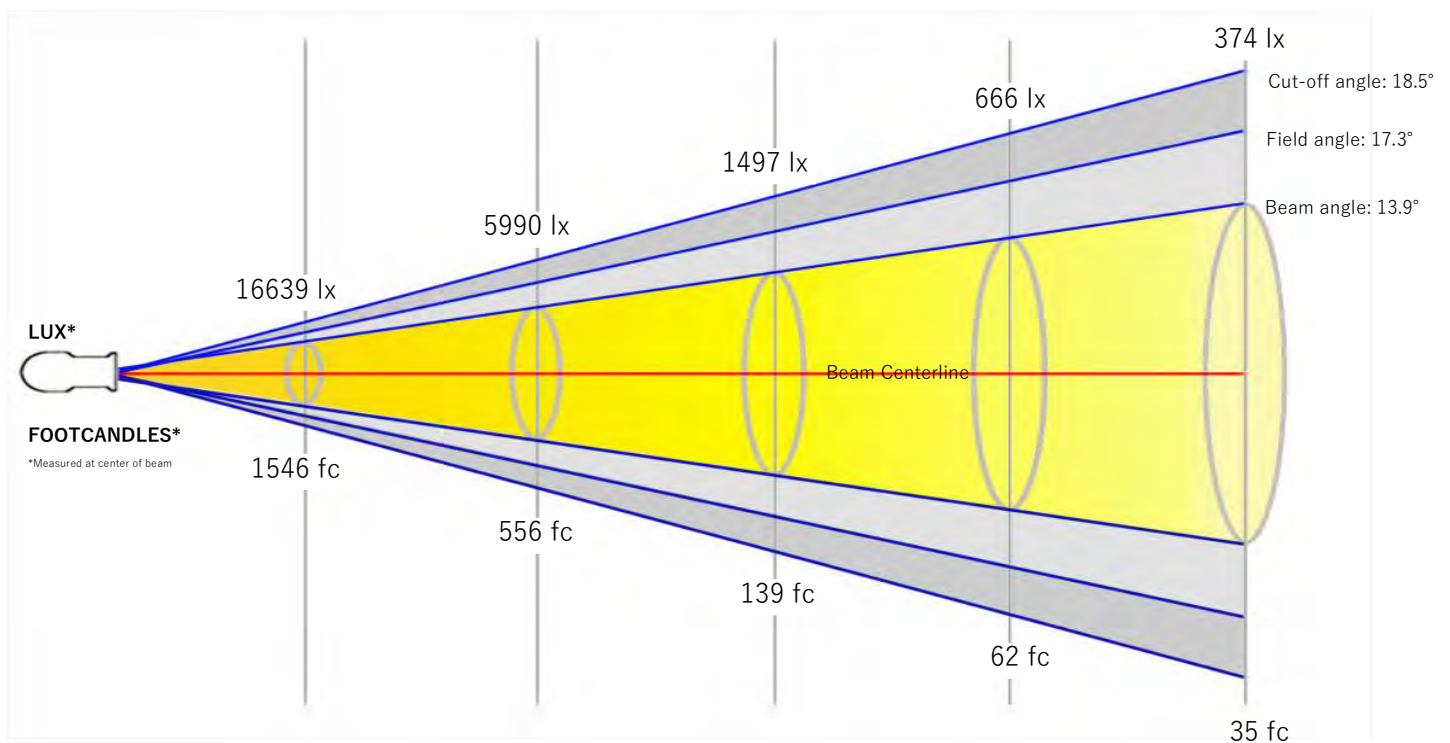
Power: 771 W

Supply Voltage: 114 V

Current: 6.76 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.7 m	1.2 m	2.4 m	3.7 m	4.9 m

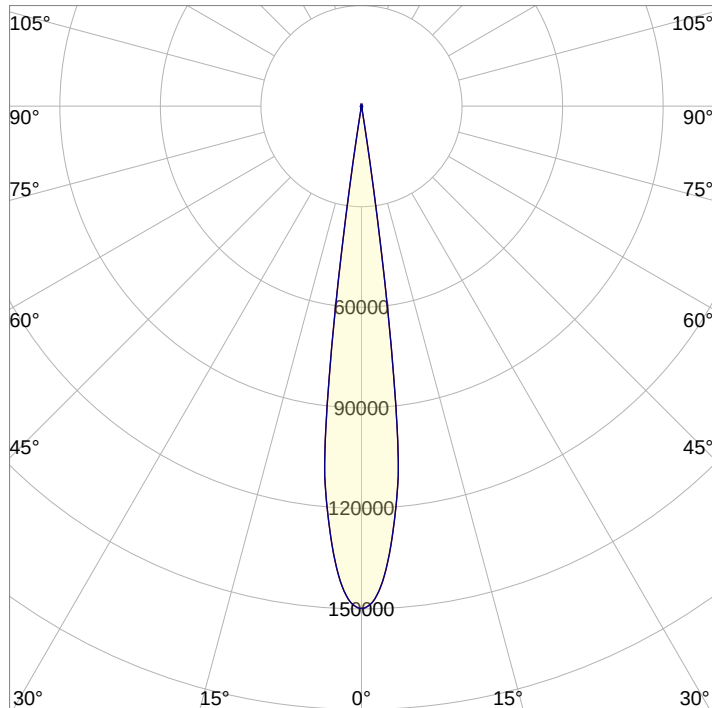


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	2.4 ft	4 ft	8 ft	12 ft	16 ft

Beam Intensities from 1-20m

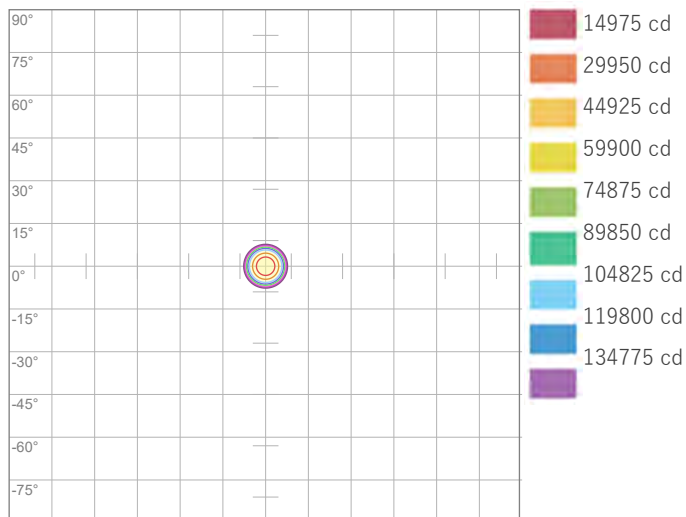
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	149749	37437	16639	9359	5990	4160	3056	2340	1849	1497	1238	1040	886	764	666	585	518	462	415	374
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	13912.2	3478	1545.8	869.5	556.5	386.4	283.9	217.4	171.8	139.1	115	96.6	82.3	71	61.8	54.3	48.1	42.9	38.5	34.8

Angular Distribution



Beam Angle - 50%
13.9°
Field Angle - 10%
17.3°
Cutoff Angle - 2.5%
18.5°

ISO Diagrams

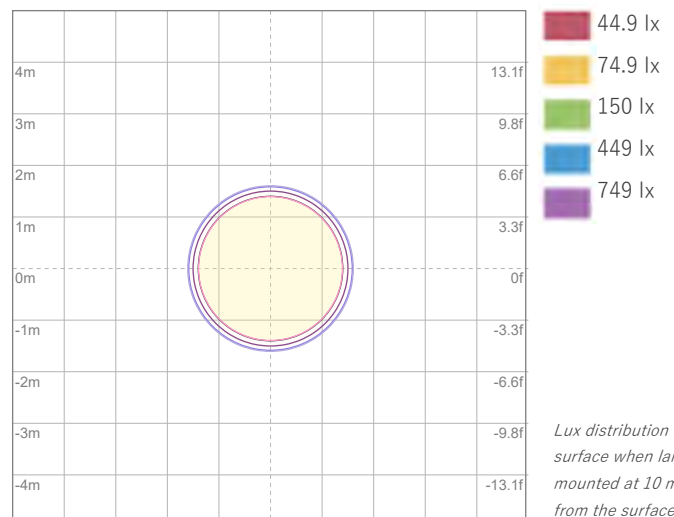


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 149749 cd



ISO LUX Diagram

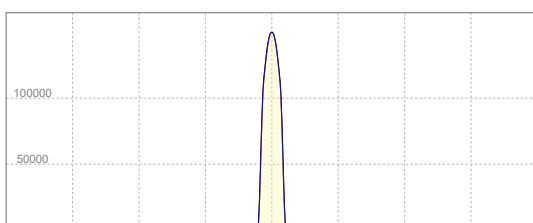
Conditions:

Number of c-planes: 8

LUX at center: 1497 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
149749 cd

Calculate Center Beam Intensities

$$\text{lux} = 149749 / \text{distance(m)}^2$$

$$\text{fc} = 149749 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 12794 lm

Peak Intensity: 642803 cd

Beam

Beam Angle (50%): 7.8°

Field Angle (10%): 9.7°

Cutoff Angle (2.5%): 10.6°

Color

Color Temperature: 6275 K

CRI: 79.5

TLCI: 70

TM30 R_F: 79.2

TM30 R_g: 97.7

Power Details

Efficacy: 17 Lumen/Watt

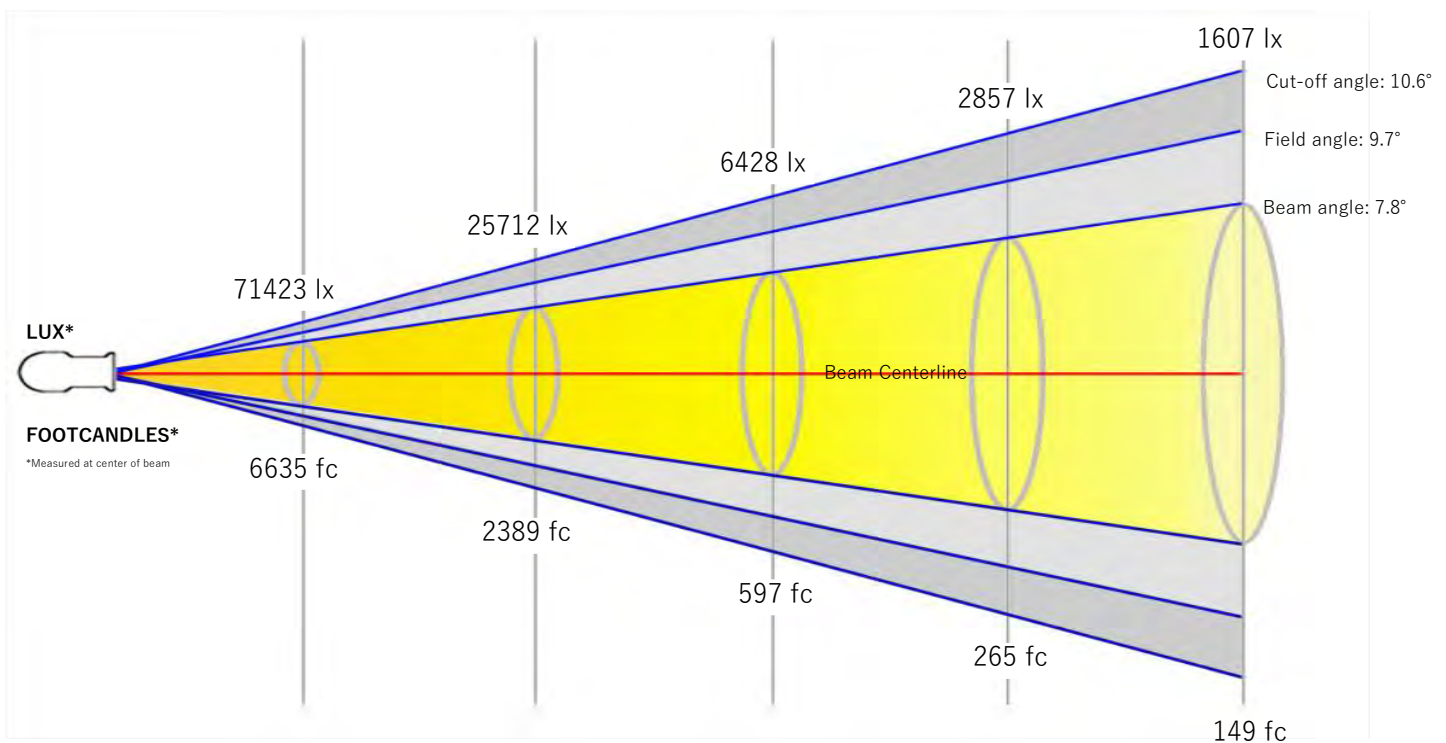
Power: 773 W

Supply Voltage: 114 V

Current: 6.78 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.4 m	0.7 m	1.4 m	2 m	2.7 m

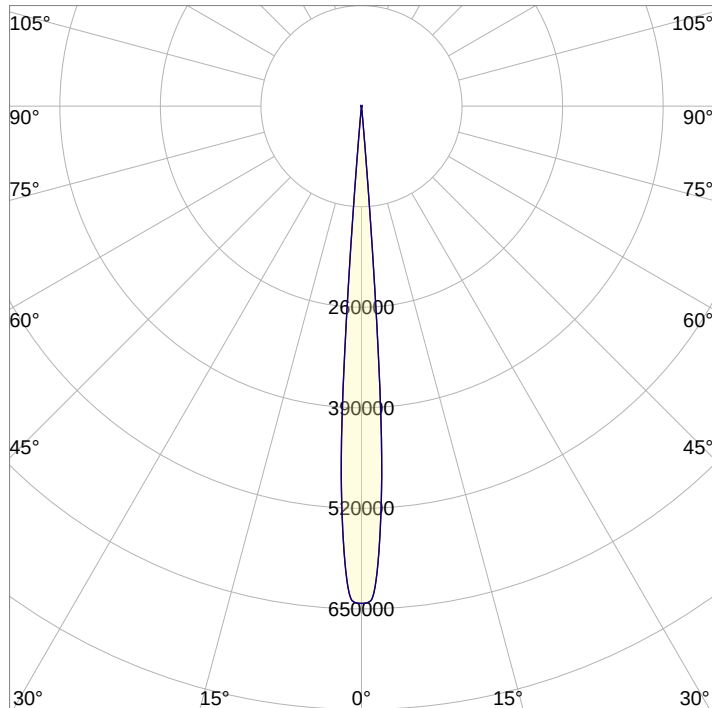


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	1.3 ft	2.2 ft	4.5 ft	6.7 ft	8.9 ft

Beam Intensities from 1-20m

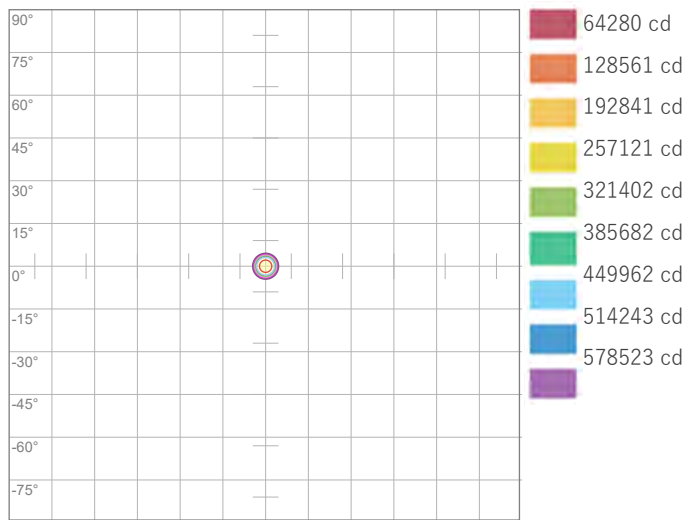
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	642803	160701	71423	40175	25712	17856	13118	10044	7936	6428	5312	4464	3804	3280	2857	2511	2224	1984	1781	1607
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	59718.4	14929.6	6635.4	3732.4	2388.7	1658.8	1218.7	933.1	737.3	597.2	493.5	414.7	353.4	304.7	265.4	233.3	206.6	184.3	165.4	149.3

Angular Distribution



Beam Angle - 50%
7.8°
Field Angle - 10%
9.7°
Cutoff Angle - 2.5%
10.6°

ISO Diagrams

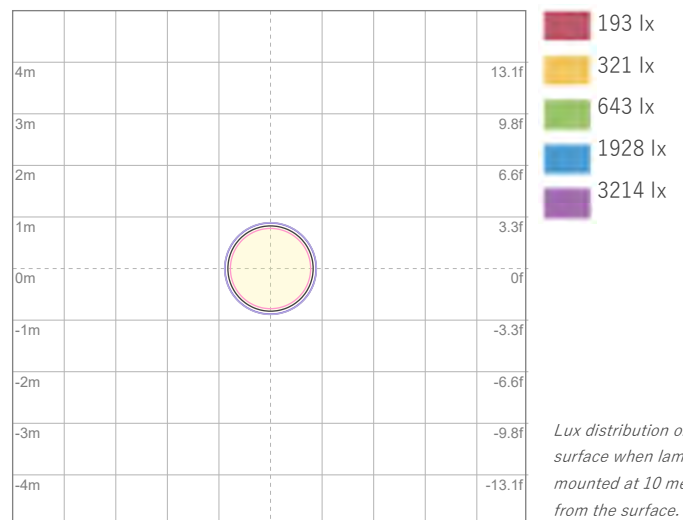


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 642803 cd



ISO LUX Diagram

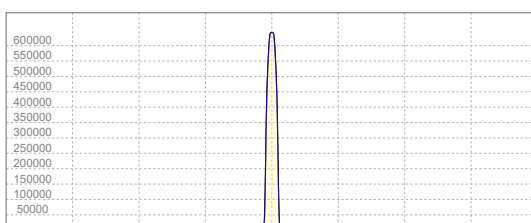
Conditions:

Number of c-planes: 8

LUX at center: 6428 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
642803 cd

Calculate Center Beam Intensities

$$\text{lux} = 642803 / \text{distance(m)}^2$$

$$\text{fc} = 642803 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 10104 lm

Peak Intensity: 14281 cd

Beam

Beam Angle (50%): 41.6°

Field Angle (10%): 52.2°

Cutoff Angle (2.5%): 360°

Color

Color Temperature: 6449 K

CRI: 91.8

TLCI: 93

TM30 R_F: 89.3

TM30 R_g: 100.0

Power Details

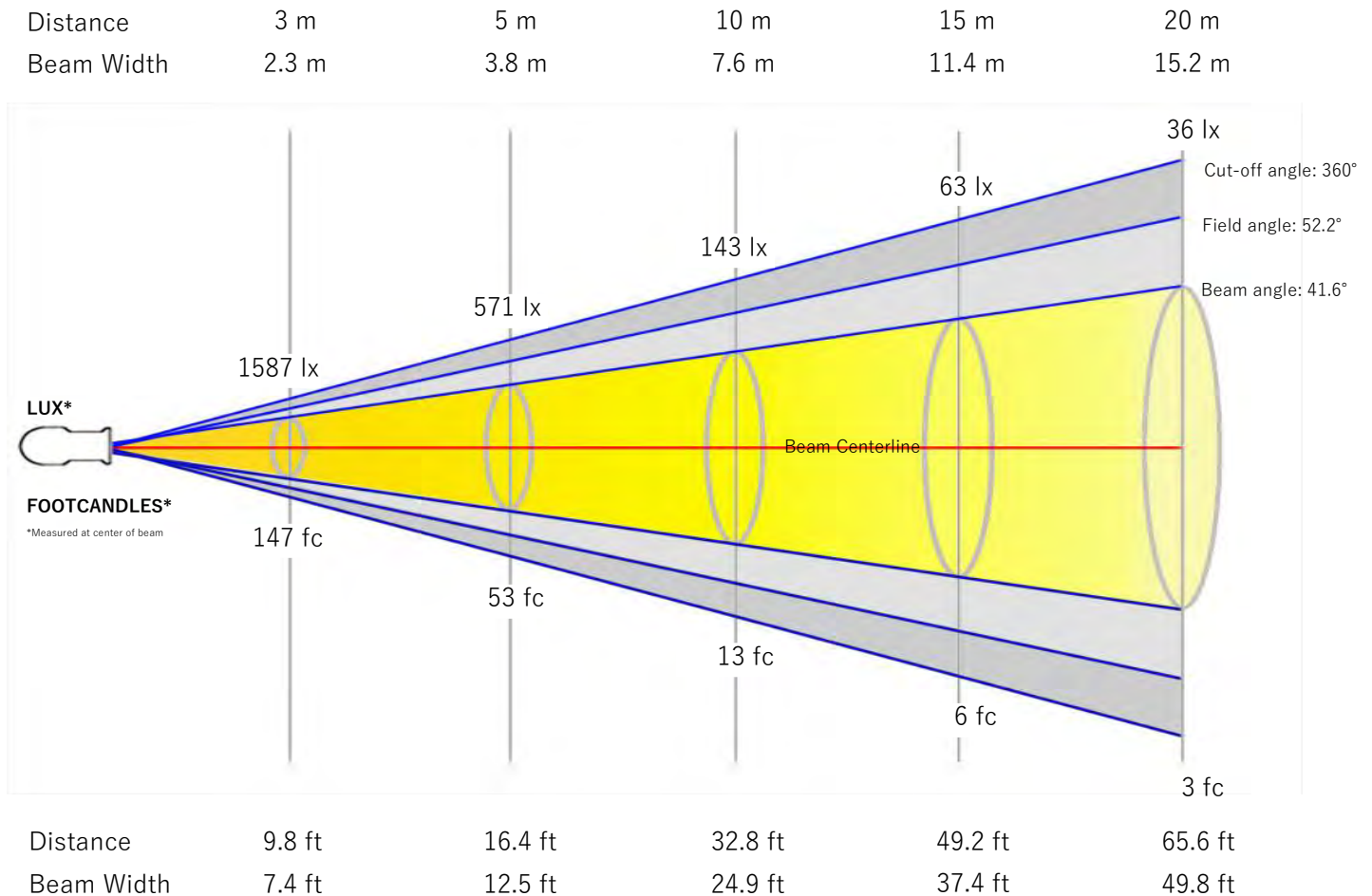
Efficacy: 22 Lumen/Watt

Power: 461 W

Supply Voltage: 116 V

Current: 3.97 A

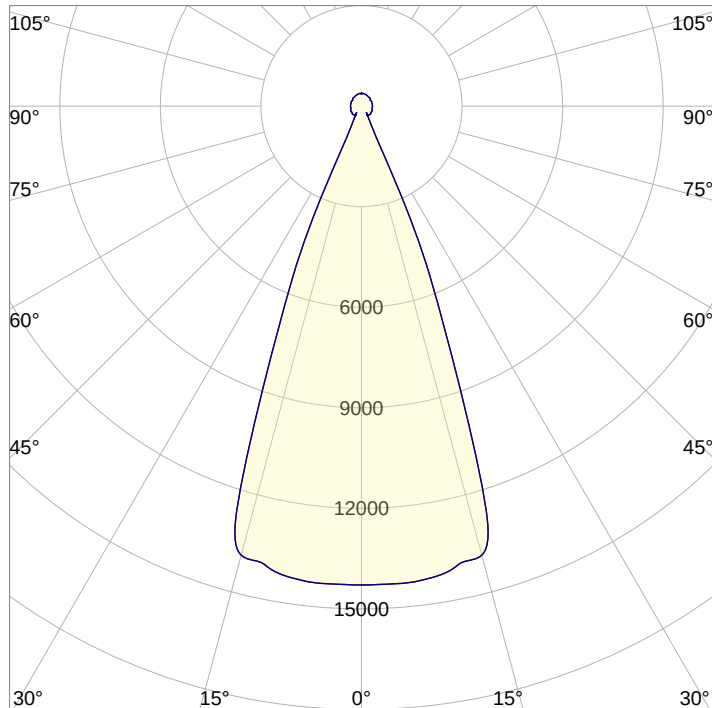
Beam Details



Beam Intensities from 1-20m

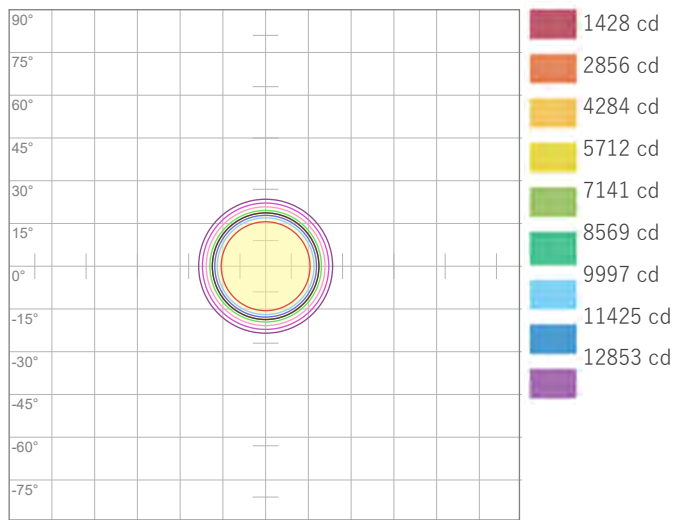
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	14281	3570	1587	893	571	397	291	223	176	143	118	99	85	73	63	56	49	44	40	36
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1326.8	331.7	147.4	82.9	53.1	36.9	27.1	20.7	16.4	13.3	11	9.2	7.9	6.8	5.9	5.2	4.6	4.1	3.7	3.3

Angular Distribution



Beam Angle - 50%
41.6°
Field Angle - 10%
52.2°
Cutoff Angle - 2.5%
360°

ISO Diagrams

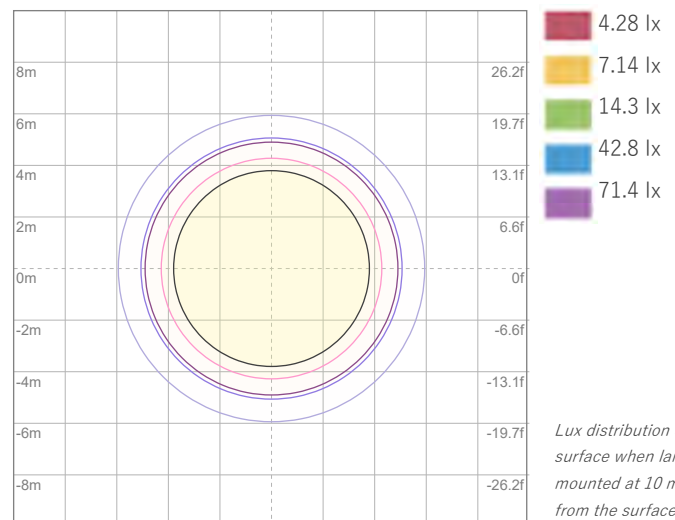


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 14281 cd



ISO LUX Diagram

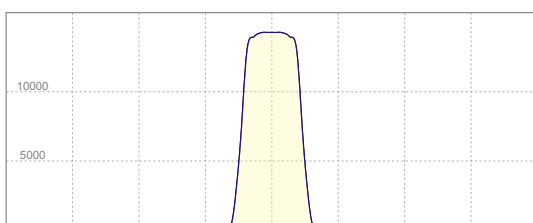
Conditions:

Number of c-planes: 8

LUX at center: 143 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
14281 cd

Calculate Center Beam Intensities

$$\text{lux} = 14281 / \text{distance(m)}^2$$

$$\text{fc} = 14281 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 10474 lm

Peak Intensity: 105644 cd

Beam

Beam Angle (50%): 14.2°

Field Angle (10%): 23.4°

Cutoff Angle (2.5%): 25.3°

Color

Color Temperature: 6218 K

CRI: 91.5

TLCI: 93

TM30 R_F: 89.0

TM30 R_g: 99.8

Power Details

Efficacy: 23 Lumen/Watt

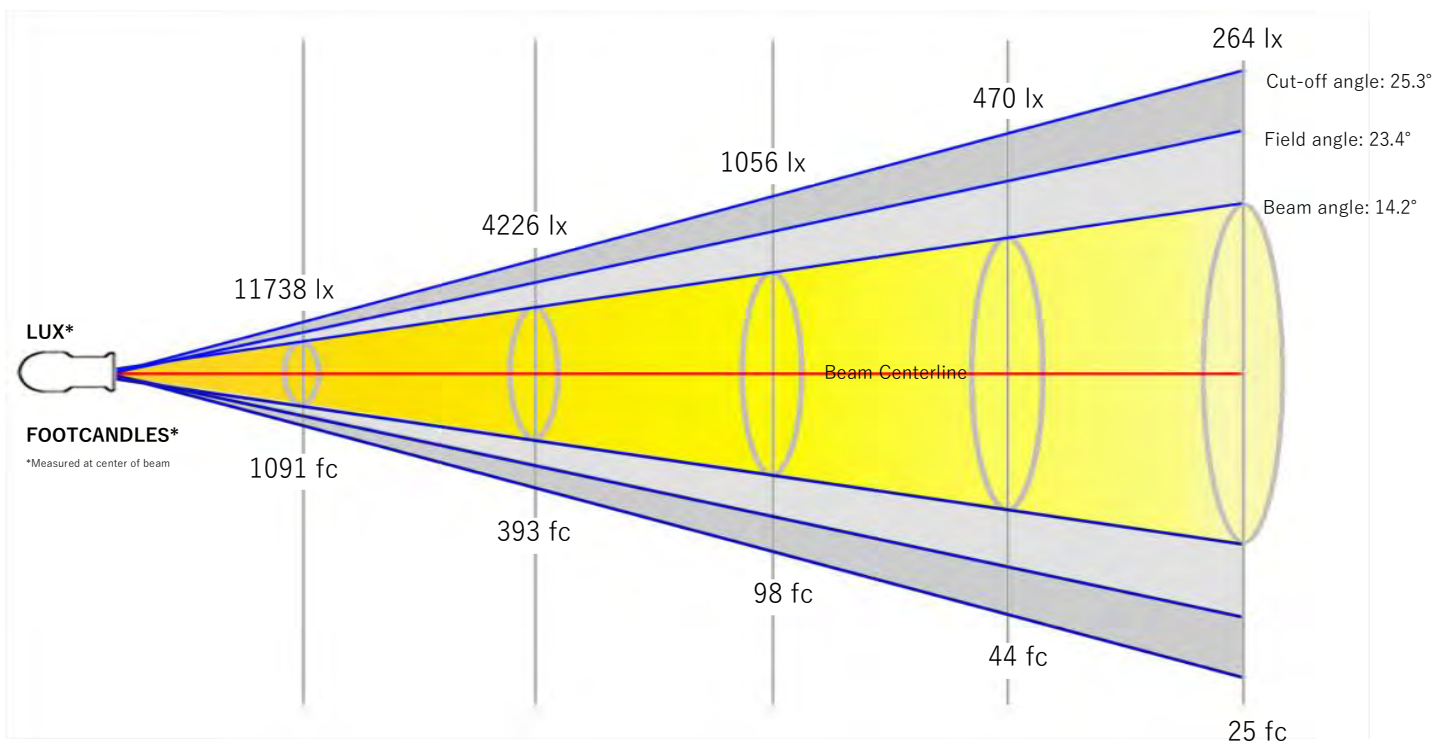
Power: 462 W

Supply Voltage: 116 V

Current: 3.98 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.7 m	1.2 m	2.5 m	3.7 m	5 m

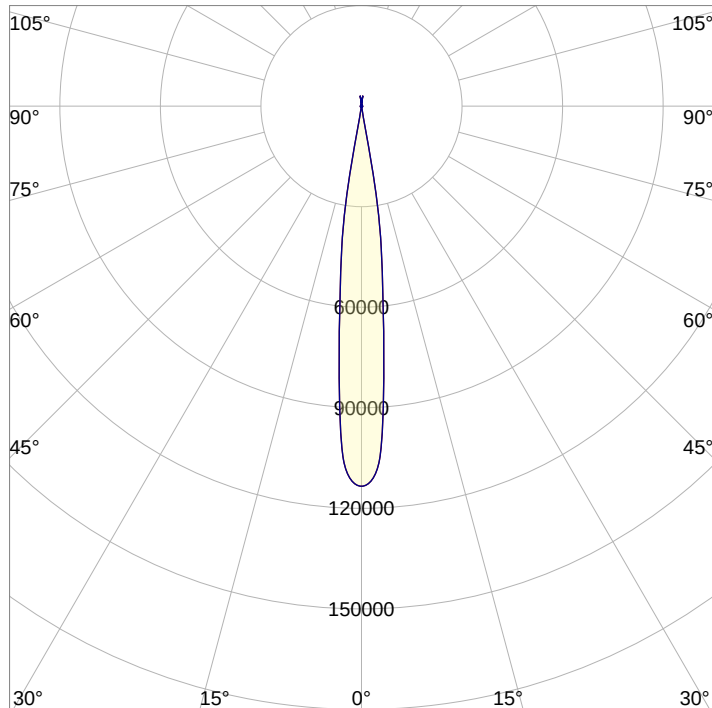


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	2.4 ft	4.1 ft	8.2 ft	12.3 ft	16.4 ft

Beam Intensities from 1-20m

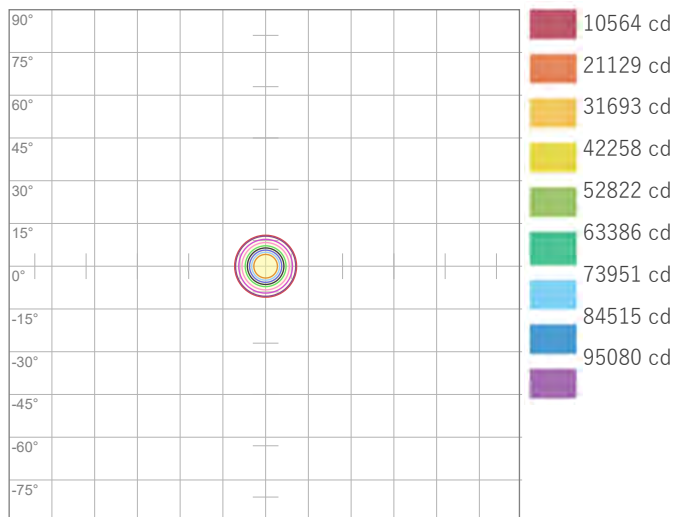
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	105644	26411	11738	6603	4226	2935	2156	1651	1304	1056	873	734	625	539	470	413	366	326	293	264
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	9814.6	2453.7	1090.5	613.4	392.6	272.6	200.3	153.4	121.2	98.1	81.1	68.2	58.1	50.1	43.6	38.3	34	30.3	27.2	24.5

Angular Distribution



Beam Angle - 50%
14.2°
Field Angle - 10%
23.4°
Cutoff Angle - 2.5%
25.3°

ISO Diagrams

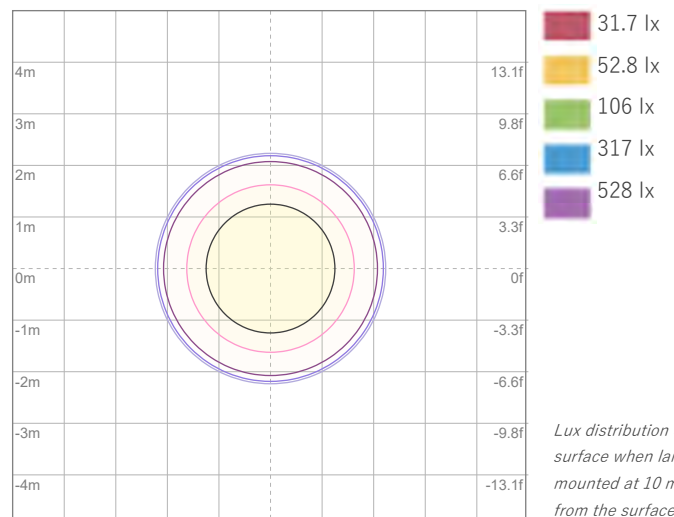


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 105644 cd



ISO LUX Diagram

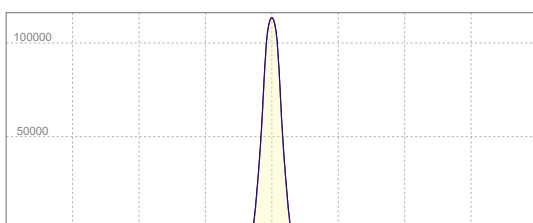
Conditions:

Number of c-planes: 8

LUX at center: 1056 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
105644 cd

Calculate Center Beam Intensities

$$\text{lux} = 105644 / \text{distance(m)}^2$$

$$\text{fc} = 105644 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 6373 lm

Peak Intensity: 606797 cd

Beam

Beam Angle (50%): 4.2°

Field Angle (10%): 5.6°

Cutoff Angle (2.5%): 6°

Color

Color Temperature: 6162 K

CRI: 91.3

TLCI: 93

TM30 R_F: 88.9

TM30 R_g: 99.9

Power Details

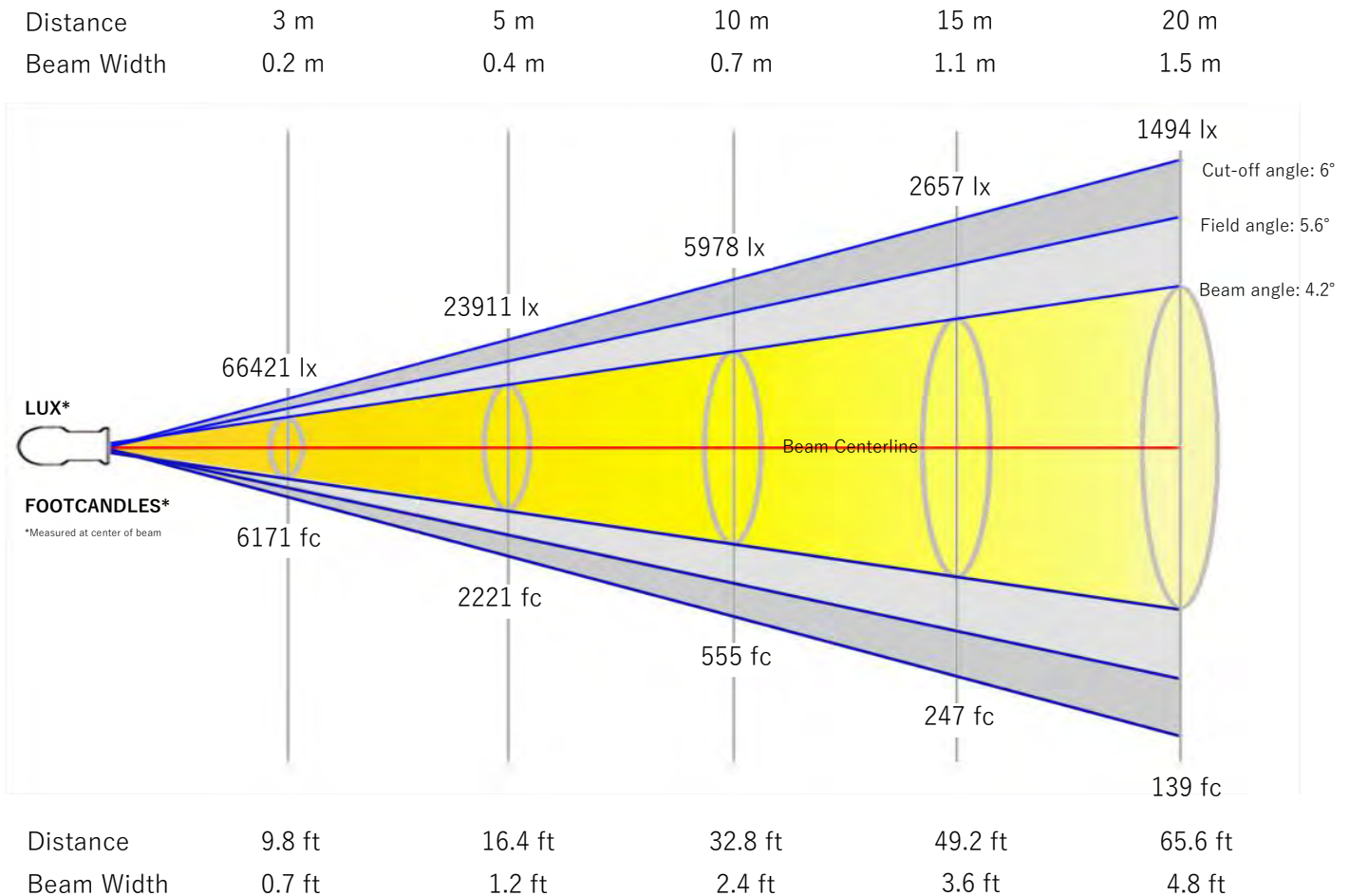
Efficacy: 14 Lumen/Watt

Power: 462 W

Supply Voltage: 116 V

Current: 3.98 A

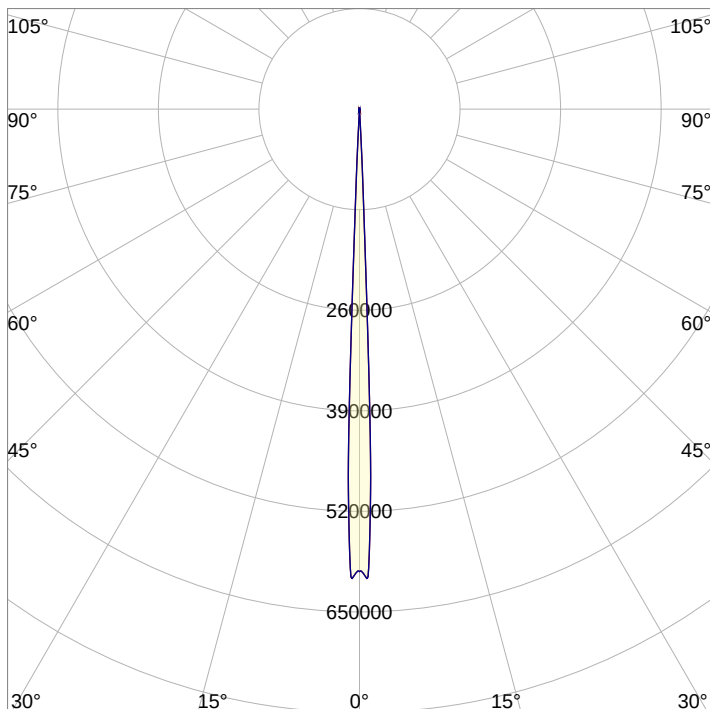
Beam Details



Beam Intensities from 1-20m

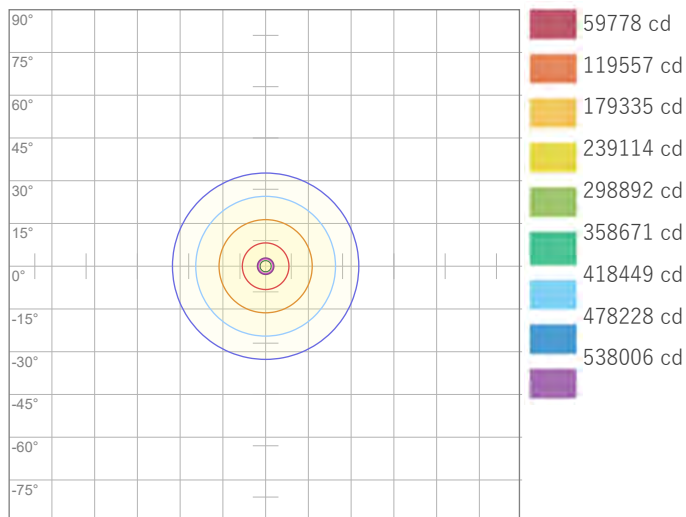
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	597785	149446	66421	37362	23911	16605	12200	9340	7380	5978	4940	4151	3537	3050	2657	2335	2068	1845	1656	1494
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	55536	13884	6170.7	3471	2221.4	1542.7	1133.4	867.8	685.6	555.4	459	385.7	328.6	283.3	246.8	216.9	192.2	171.4	153.8	138.8

Angular Distribution



Beam Angle - 50%
4.2°
Field Angle - 10%
5.6°
Cutoff Angle - 2.5%
6°

ISO Diagrams

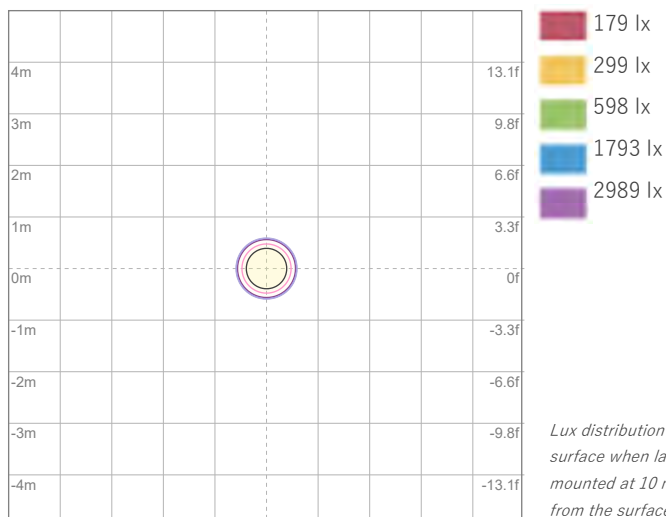


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 597785 cd



ISO LUX Diagram

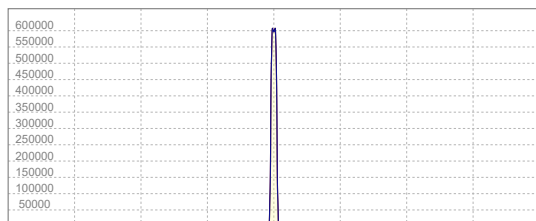
Conditions:

Number of c-planes: 8

LUX at center: 5978 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
606797 cd

Calculate Center Beam Intensities

$$\text{lux} = 606797 / \text{distance(m)}^2$$

$$\text{fc} = 606797 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 8334 lm

Peak Intensity: 11172 cd

Beam

Beam Angle (50%): 42.1°

Field Angle (10%): 48.2°

Cutoff Angle (2.5%): 360°

Color

Color Temperature: 7442 K

CRI: 93.0

TLCI: 95

TM30 R_F: 90.9

TM30 R_g: 100.7

Power Details

Efficacy: 18 Lumen/Watt

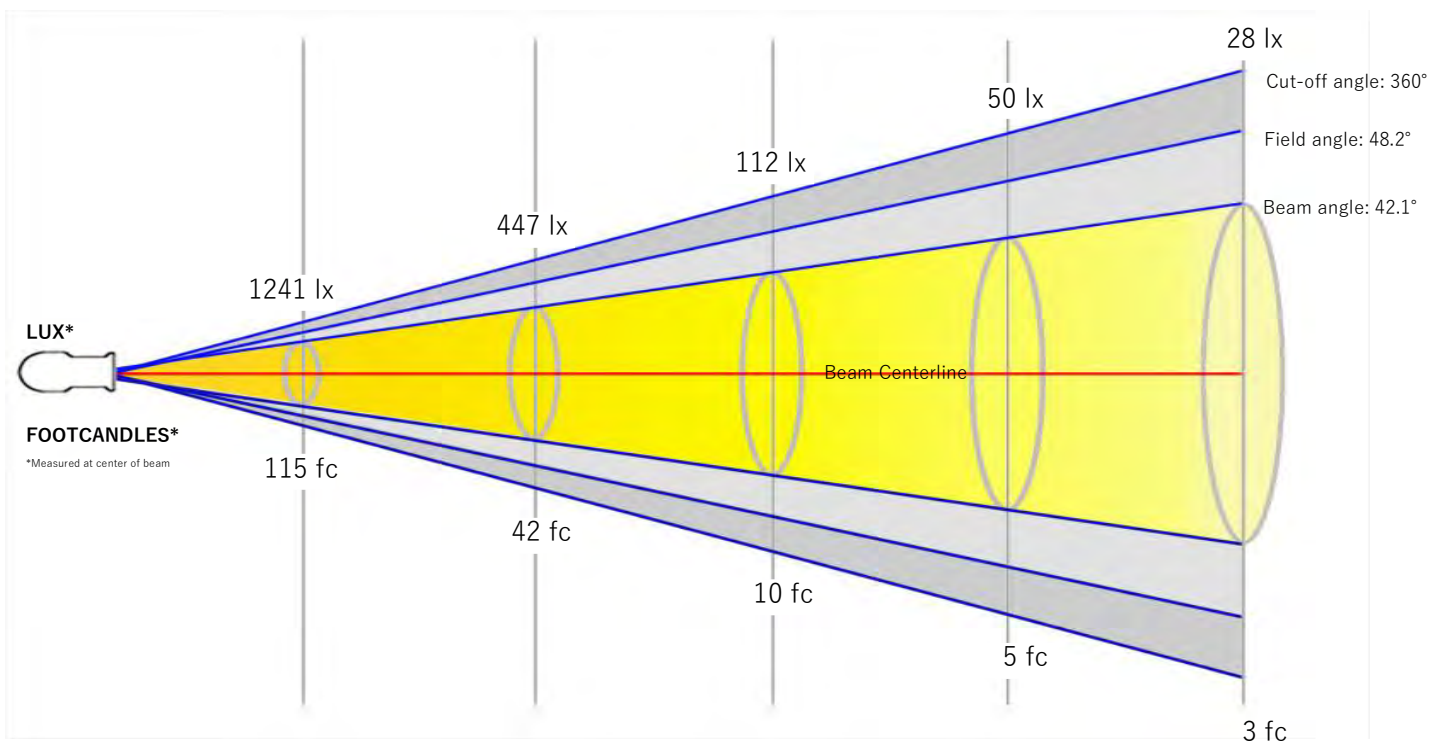
Power: 462 W

Supply Voltage: 115 V

Current: 4.02 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.3 m	3.8 m	7.7 m	11.5 m	15.4 m

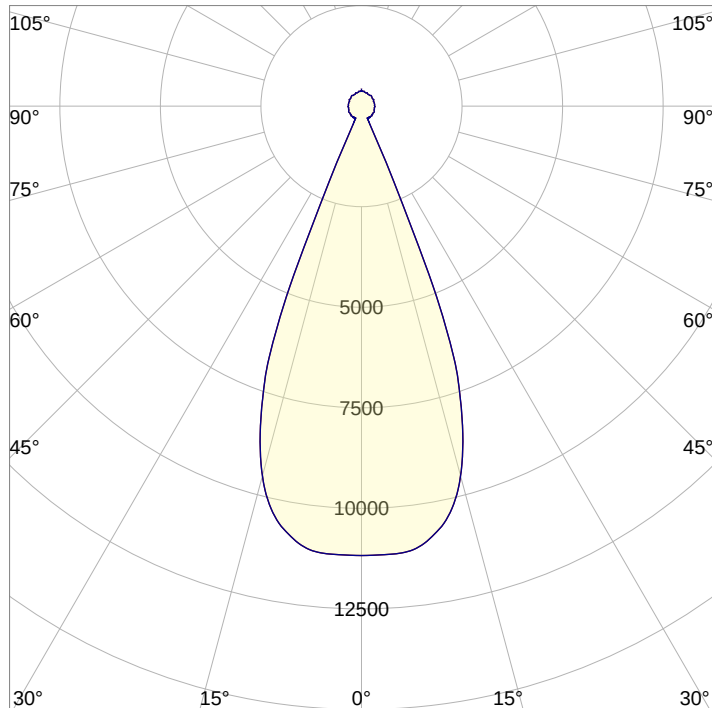


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7.5 ft	12.6 ft	25.2 ft	37.9 ft	50.5 ft

Beam Intensities from 1-20m

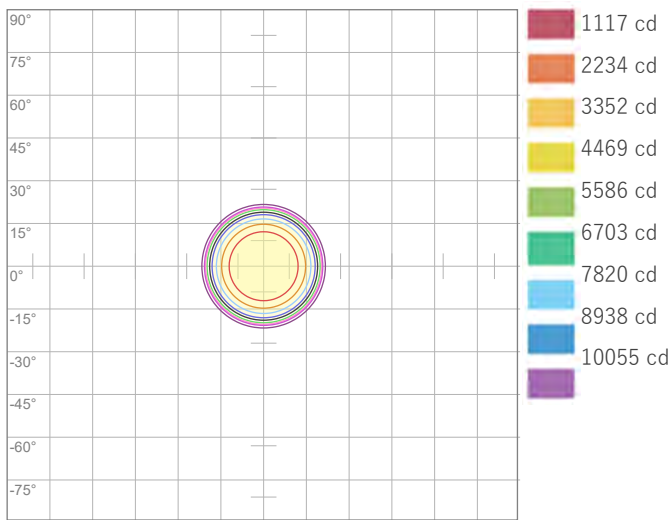
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	11172	2793	1241	698	447	310	228	175	138	112	92	78	66	57	50	44	39	34	31	28
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1037.9	259.5	115.3	64.9	41.5	28.8	21.2	16.2	12.8	10.4	8.6	7.2	6.1	5.3	4.6	4.1	3.6	3.2	2.9	2.6

Angular Distribution



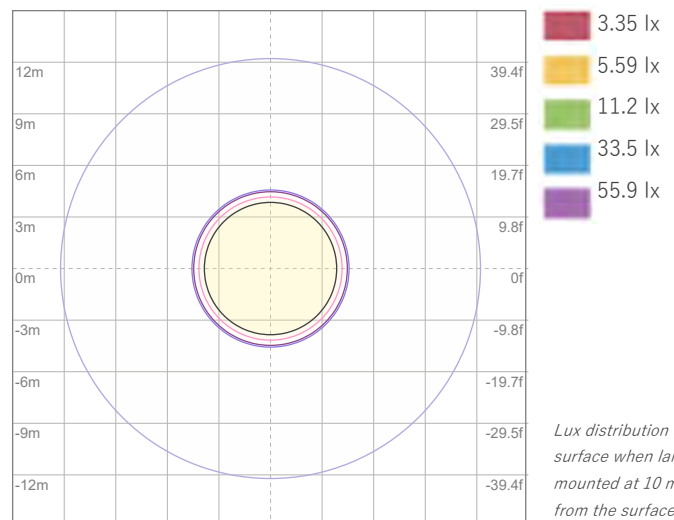
Beam Angle - 50%
42.1°
Field Angle - 10%
48.2°
Cutoff Angle - 2.5%
360°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 8
Candela at center: 11172 cd

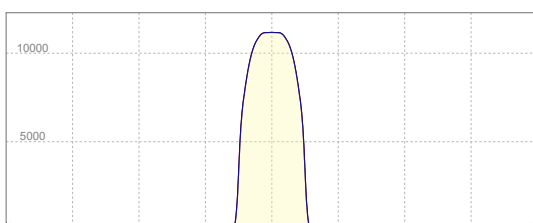


ISO LUX Diagram

Conditions:
Number of c-planes: 8
LUX at center: 112 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
11172 cd

Calculate Center Beam Intensities

$$\text{lux} = 11172 / \text{distance(m)}^2$$

$$\text{fc} = 11172 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 7263 lm

Peak Intensity: 74981 cd

Beam

Beam Angle (50%): 13.7°

Field Angle (10%): 17.3°

Cutoff Angle (2.5%): 18.7°

Color

Color Temperature: 6177 K

CRI: 91.1

TLCI: 93

TM30 R_F: 88.9

TM30 R_g: 99.6

Power Details

Efficacy: 16 Lumen/Watt

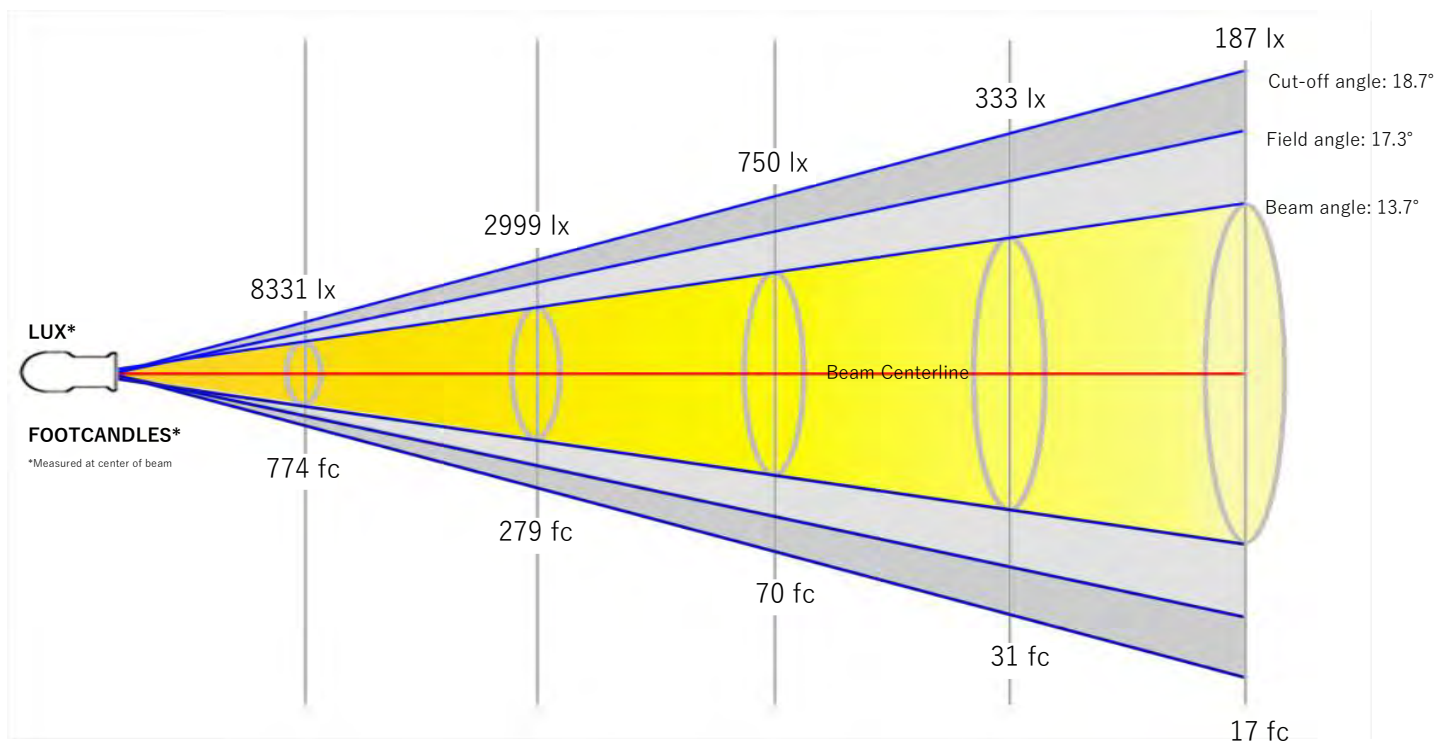
Power: 461 W

Supply Voltage: 115 V

Current: 4.01 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.7 m	1.2 m	2.4 m	3.6 m	4.8 m

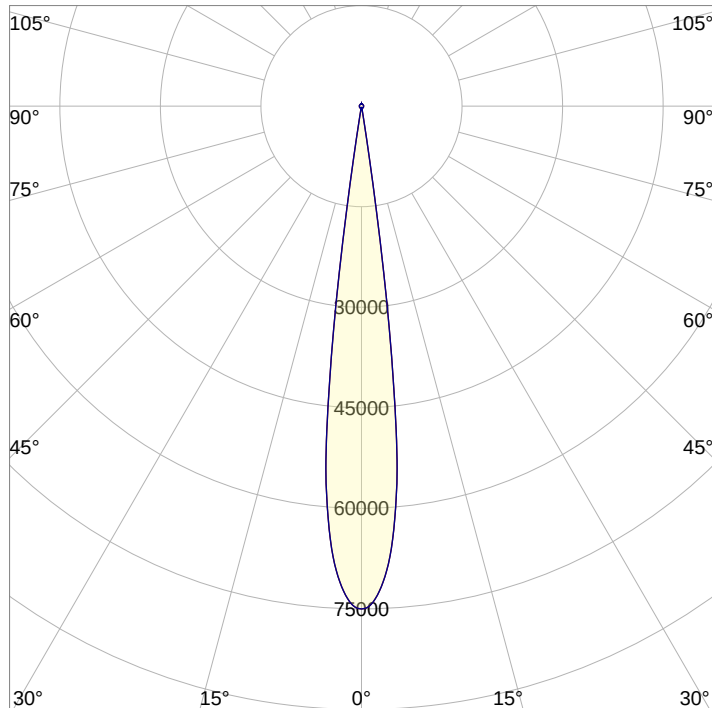


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	2.4 ft	3.9 ft	7.9 ft	11.8 ft	15.8 ft

Beam Intensities from 1-20m

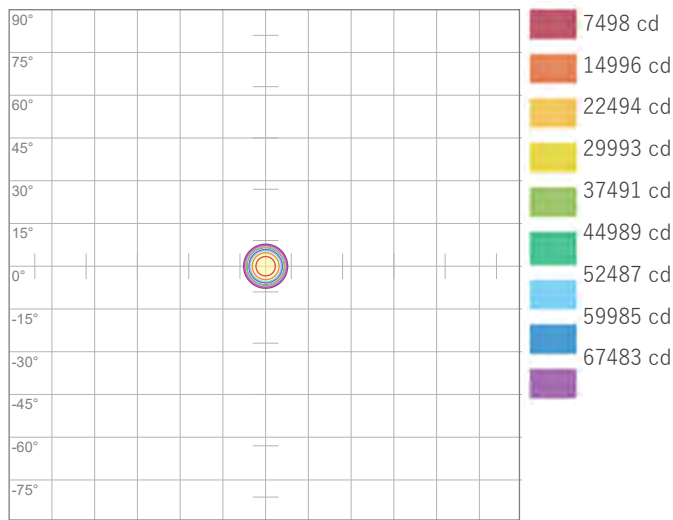
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	74981	18745	8331	4686	2999	2083	1530	1172	926	750	620	521	444	383	333	293	259	231	208	187
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	6966	1741.5	774	435.4	278.6	193.5	142.2	108.8	86	69.7	57.6	48.4	41.2	35.5	31	27.2	24.1	21.5	19.3	17.4

Angular Distribution



Beam Angle - 50%
13.7°
Field Angle - 10%
17.3°
Cutoff Angle - 2.5%
18.7°

ISO Diagrams

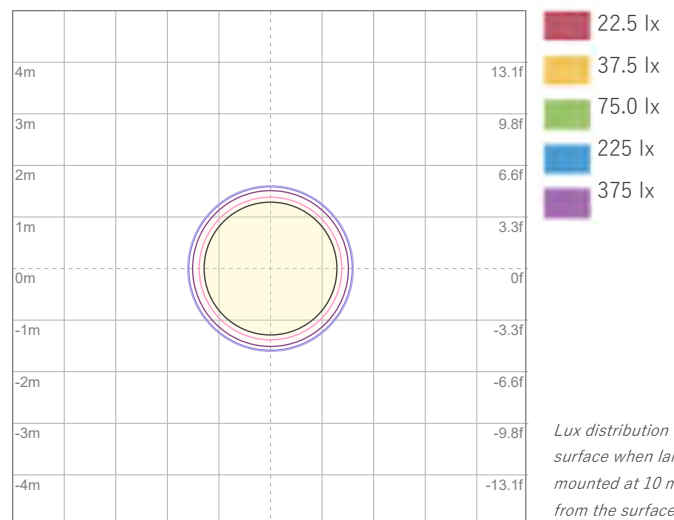


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 74981 cd



ISO LUX Diagram

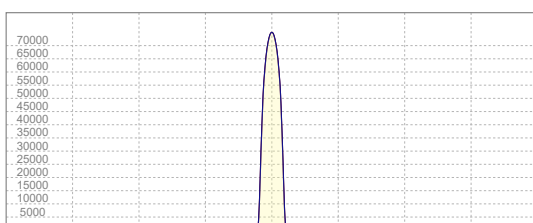
Conditions:

Number of c-planes: 8

LUX at center: 750 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
74981 cd

Calculate Center Beam Intensities

$$\text{lux} = 74981 / \text{distance(m)}^2$$

$$\text{fc} = 74981 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 7759 lm

Peak Intensity: 294142 cd

Beam

Beam Angle (50%): 7.9°

Field Angle (10%): 9.7°

Cutoff Angle (2.5%): 10.6°

Color

Color Temperature: 6173 K

CRI: 91.1

TLCI: 93

TM30 R_F: 88.8

TM30 R_g: 99.8

Power Details

Efficacy: 17 Lumen/Watt

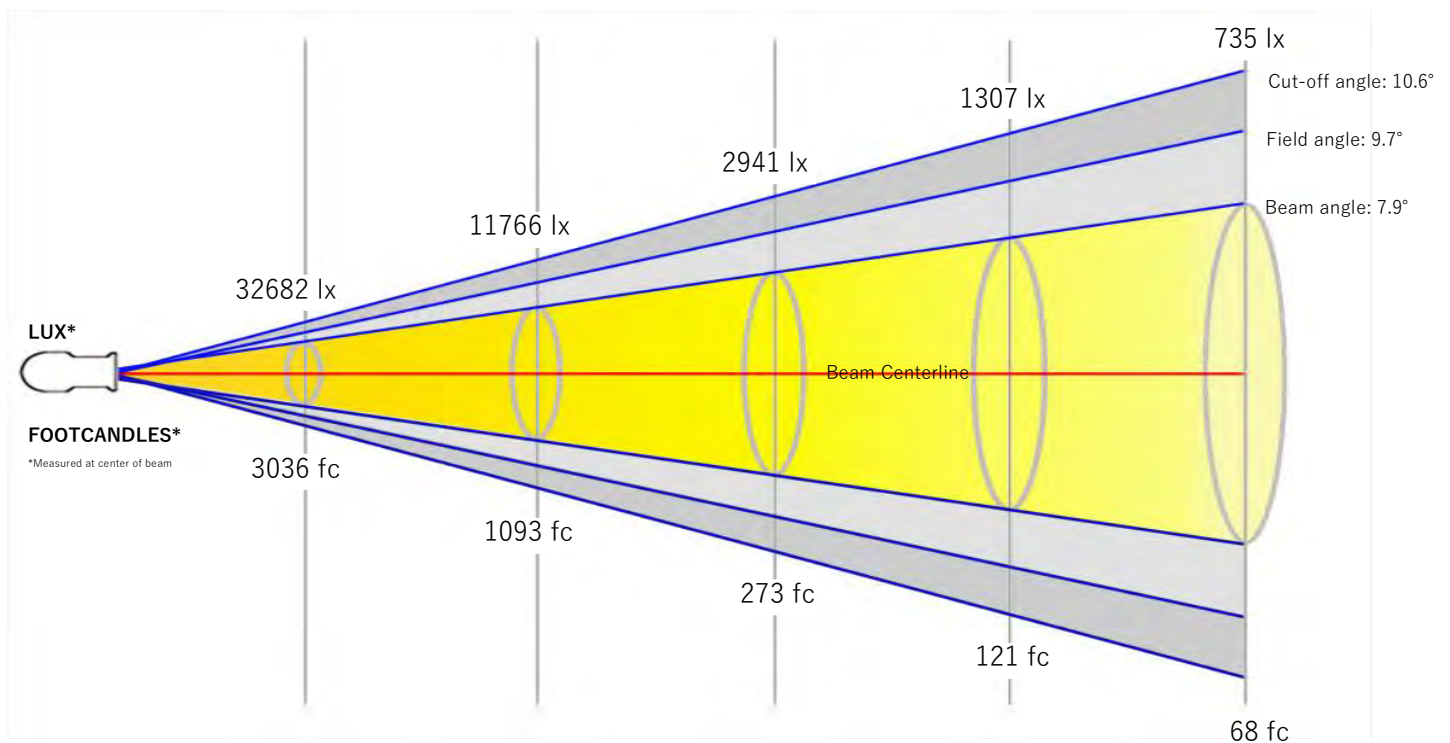
Power: 462 W

Supply Voltage: 115 V

Current: 4.02 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.4 m	0.7 m	1.4 m	2.1 m	2.7 m

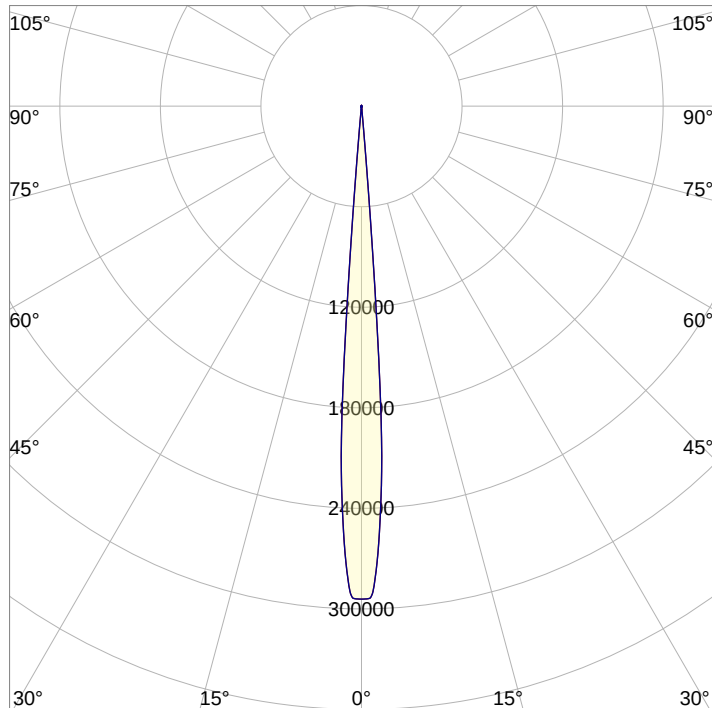


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	1.3 ft	2.3 ft	4.5 ft	6.8 ft	9 ft

Beam Intensities from 1-20m

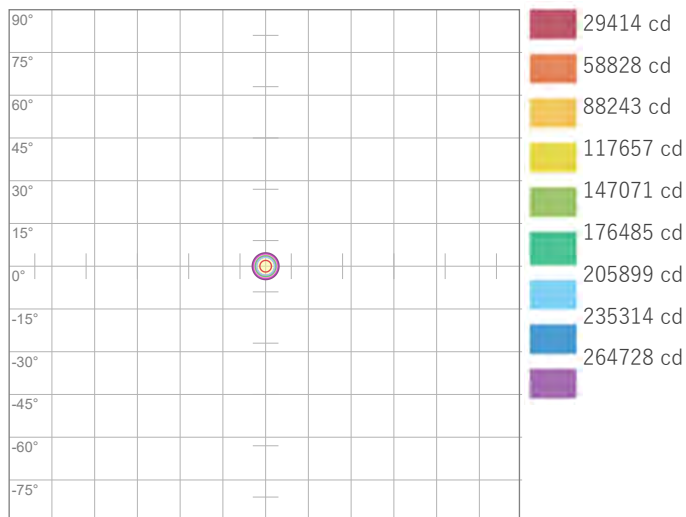
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	294142	73536	32682	18384	11766	8171	6003	4596	3631	2941	2431	2043	1740	1501	1307	1149	1018	908	815	735
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	27326.7	6831.7	3036.3	1707.9	1093.1	759.1	557.7	427	337.4	273.3	225.8	189.8	161.7	139.4	121.5	106.7	94.6	84.3	75.7	68.3

Angular Distribution



Beam Angle - 50%
7.9°
Field Angle - 10%
9.7°
Cutoff Angle - 2.5%
10.6°

ISO Diagrams

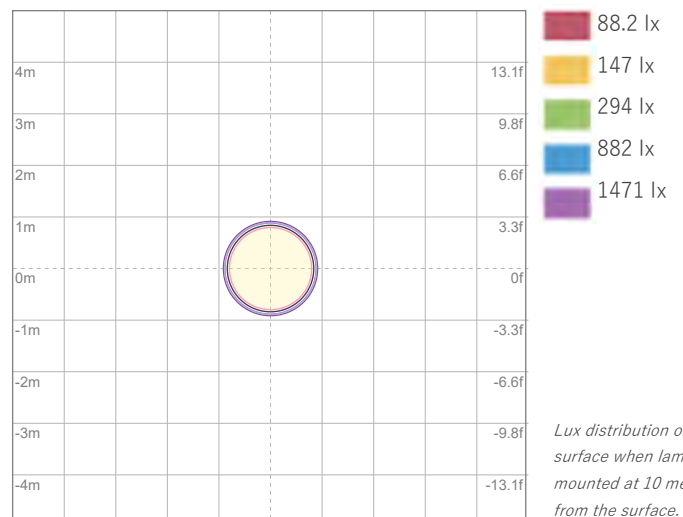


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 294142 cd



ISO LUX Diagram

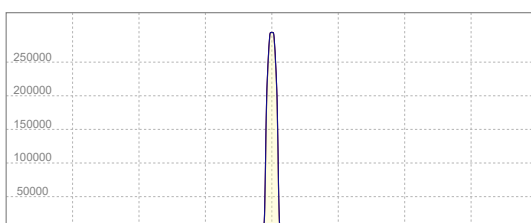
Conditions:

Number of c-planes: 8

LUX at center: 2941 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
294142 cd

Calculate Center Beam Intensities

$$\text{lux} = 294142 / \text{distance(m)}^2$$

$$\text{fc} = 294142 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 14006 lm

Peak Intensity: 24045 cd

Beam

Beam Angle (50%): 41.4°

Field Angle (10%): 52.1°

Cutoff Angle (2.5%): 54.8°

Color

Color Temperature: 6408 K

CRI: 71.2

TLCI: 52

TM30 R_F: 71.3

TM30 R_g: 96.0

Power Details

Efficacy: 29 Lumen/Watt

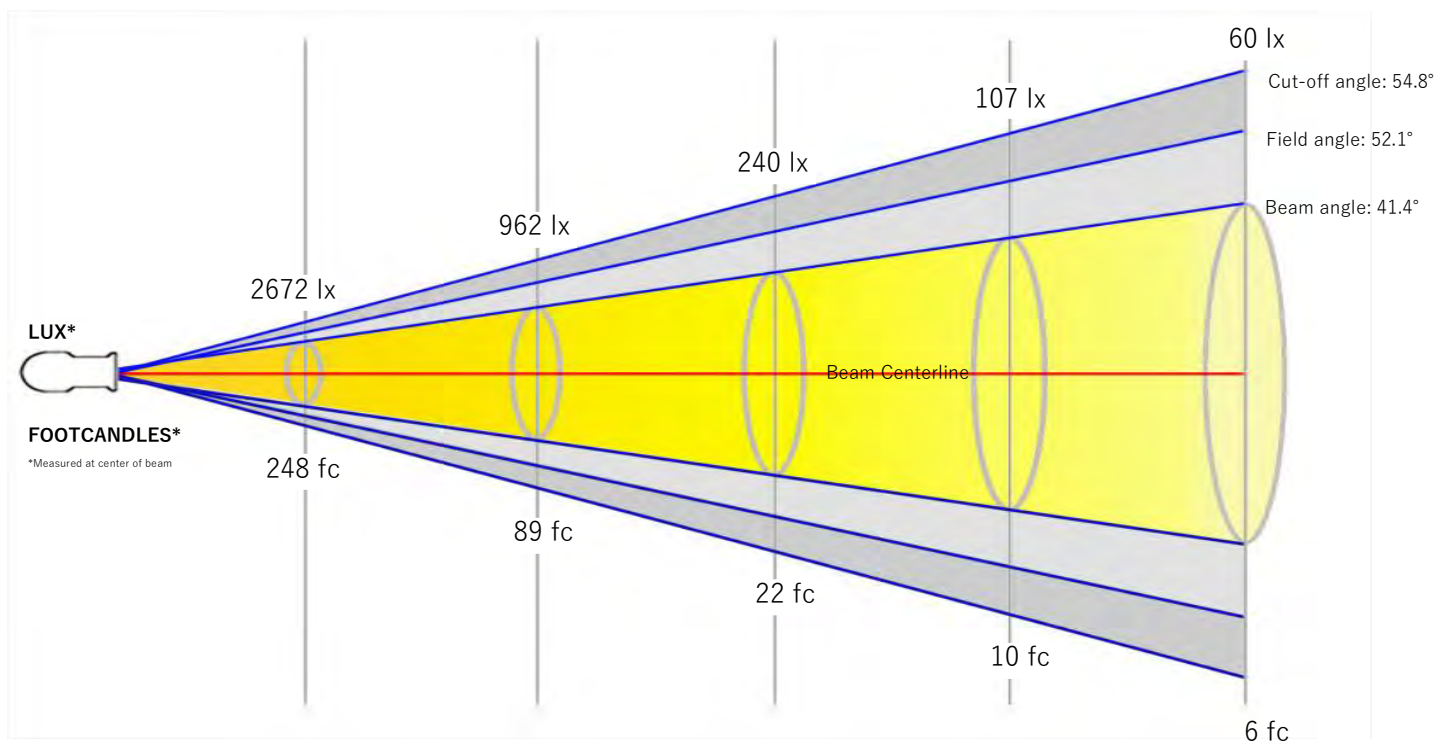
Power: 491 W

Supply Voltage: 116 V

Current: 4.23 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.3 m	3.8 m	7.6 m	11.3 m	15.1 m

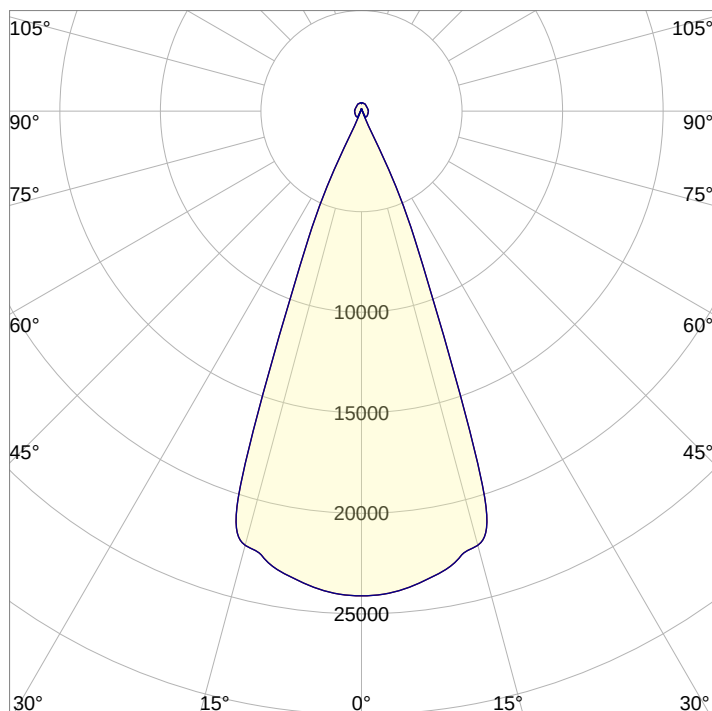


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7.4 ft	12.4 ft	24.8 ft	37.2 ft	49.5 ft

Beam Intensities from 1-20m

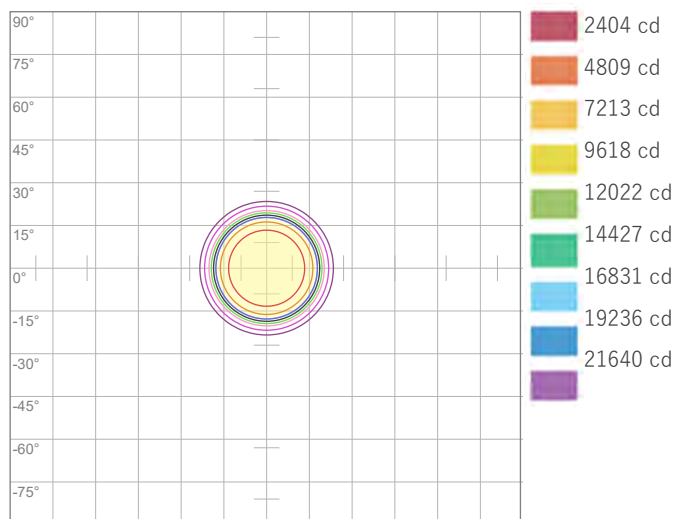
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	24045	6011	2672	1503	962	668	491	376	297	240	199	167	142	123	107	94	83	74	67	60
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	2233.8	558.5	248.2	139.6	89.4	62.1	45.6	34.9	27.6	22.3	18.5	15.5	13.2	11.4	9.9	8.7	7.7	6.9	6.2	5.6

Angular Distribution



Beam Angle - 50%
41.4°
Field Angle - 10%
52.1°
Cutoff Angle - 2.5%
54.8°

ISO Diagrams

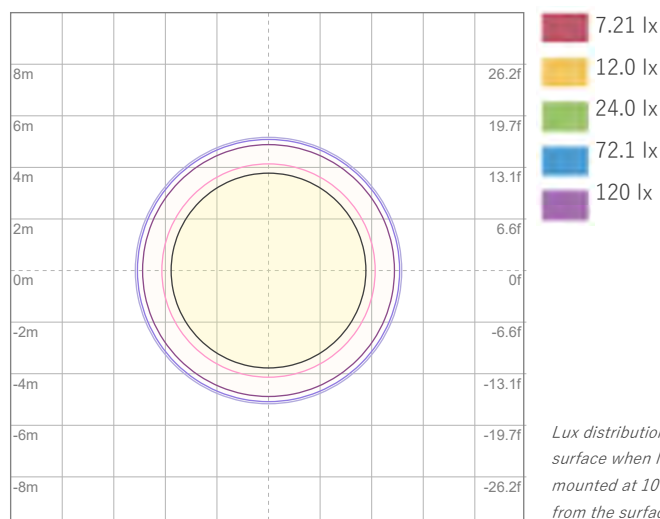


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 24045 cd



ISO LUX Diagram

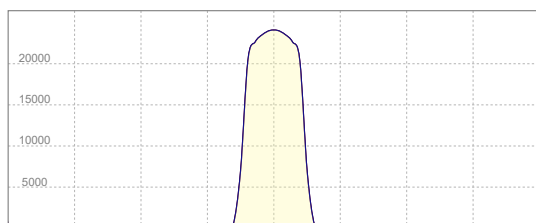
Conditions:

Number of c-planes: 8

LUX at center: 240 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
24045 cd

Calculate Center Beam Intensities

$$\text{lux} = 24045 / \text{distance(m)}^2$$

$$\text{fc} = 24045 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 12986 lm

Peak Intensity: 191142 cd

Beam

Beam Angle (50%): 14.7°

Field Angle (10%): 15.6°

Cutoff Angle (2.5%): 16.3°

Color

Color Temperature: 6283 K

CRI: 70.6

TLCI: 51

TM30 R_F: 70.7

TM30 R_g: 95.8

Power Details

Efficacy: 26 Lumen/Watt

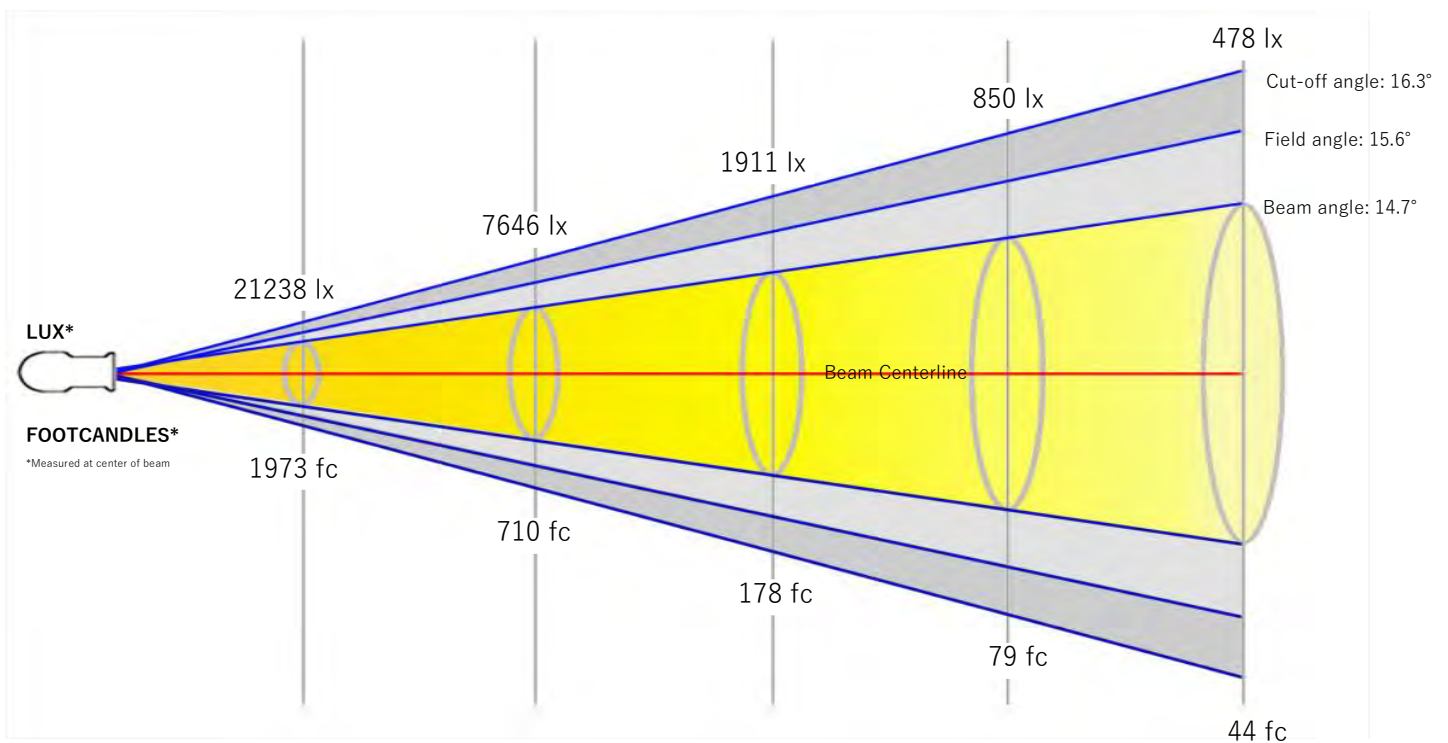
Power: 491 W

Supply Voltage: 116 V

Current: 4.23 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.8 m	1.3 m	2.6 m	3.9 m	5.2 m

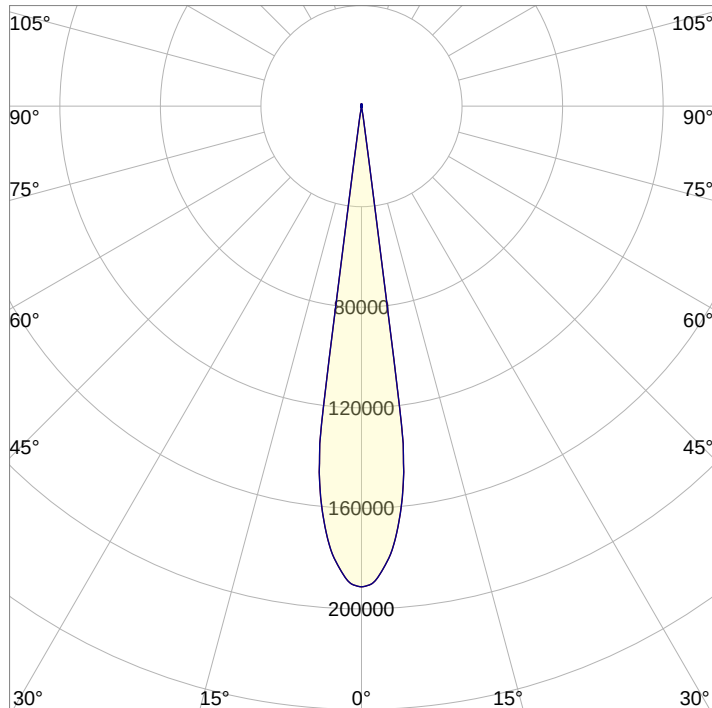


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	2.5 ft	4.2 ft	8.4 ft	12.7 ft	16.9 ft

Beam Intensities from 1-20m

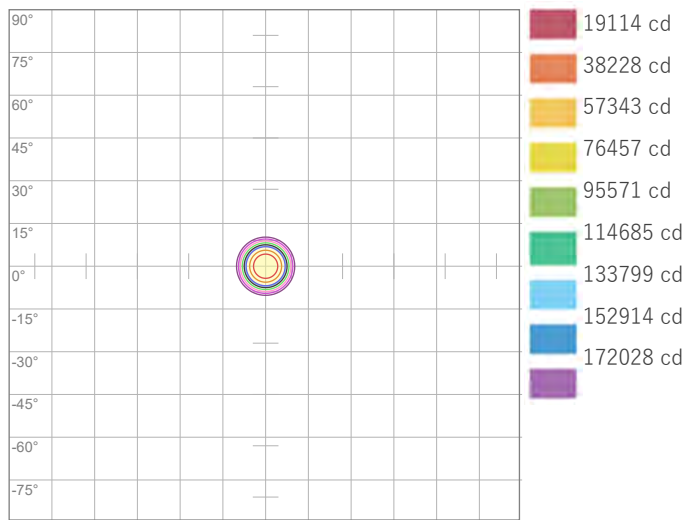
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	191142	47786	21238	11946	7646	5310	3901	2987	2360	1911	1580	1327	1131	975	850	747	661	590	529	478
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	17757.7	4439.4	1973.1	1109.9	710.3	493.3	362.4	277.5	219.2	177.6	146.8	123.3	105.1	90.6	78.9	69.4	61.4	54.8	49.2	44.4

Angular Distribution



Beam Angle - 50%
14.7°
Field Angle - 10%
15.6°
Cutoff Angle - 2.5%
16.3°

ISO Diagrams

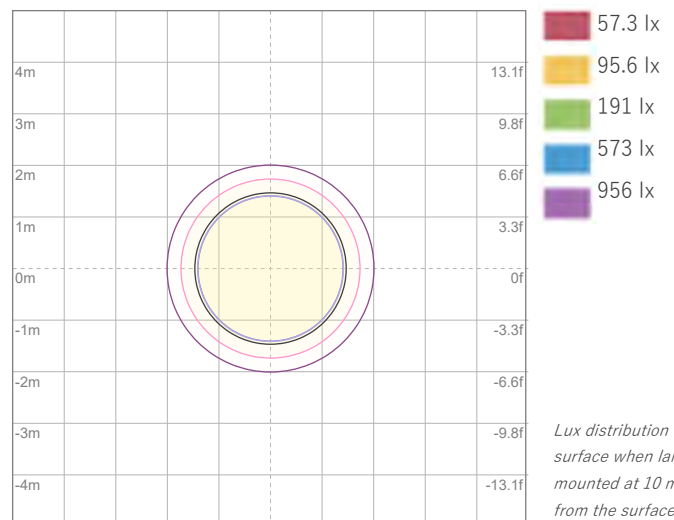


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 191142 cd



ISO LUX Diagram

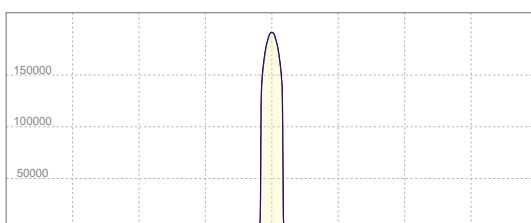
Conditions:

Number of c-planes: 8

LUX at center: 1911 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
191142 cd

Calculate Center Beam Intensities

$$\text{lux} = 191142 / \text{distance(m)}^2$$

$$\text{fc} = 191142 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 6760 lm

Peak Intensity: 803996 cd

Beam

Beam Angle (50%): 4°

Field Angle (10%): 5.4°

Cutoff Angle (2.5%): 5.9°

Color

Color Temperature: 6228 K

CRI: 71.2

TLCI: 52

TM30 R_F: 71.4

TM30 R_g: 96.0

Power Details

Efficacy: 14 Lumen/Watt

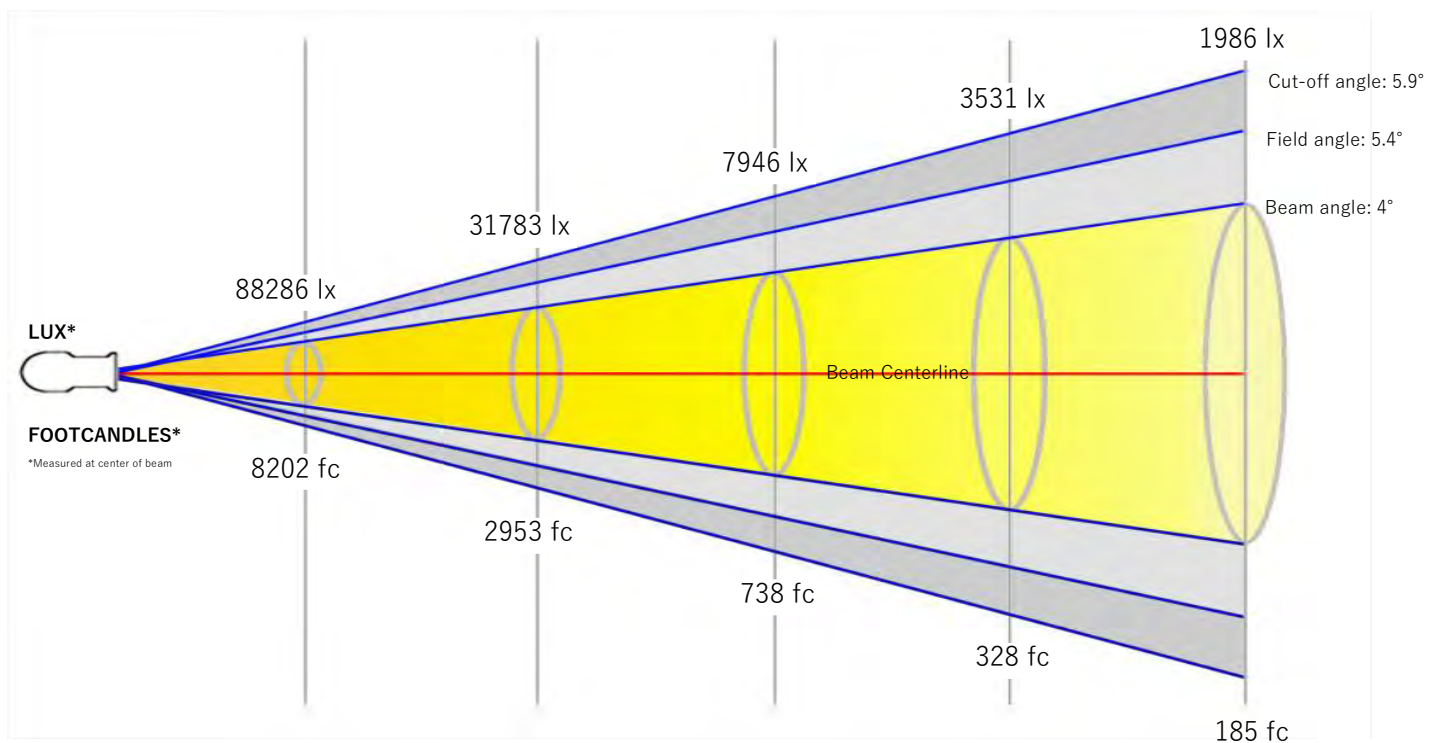
Power: 492 W

Supply Voltage: 116 V

Current: 4.24 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.2 m	0.3 m	0.7 m	1 m	1.4 m

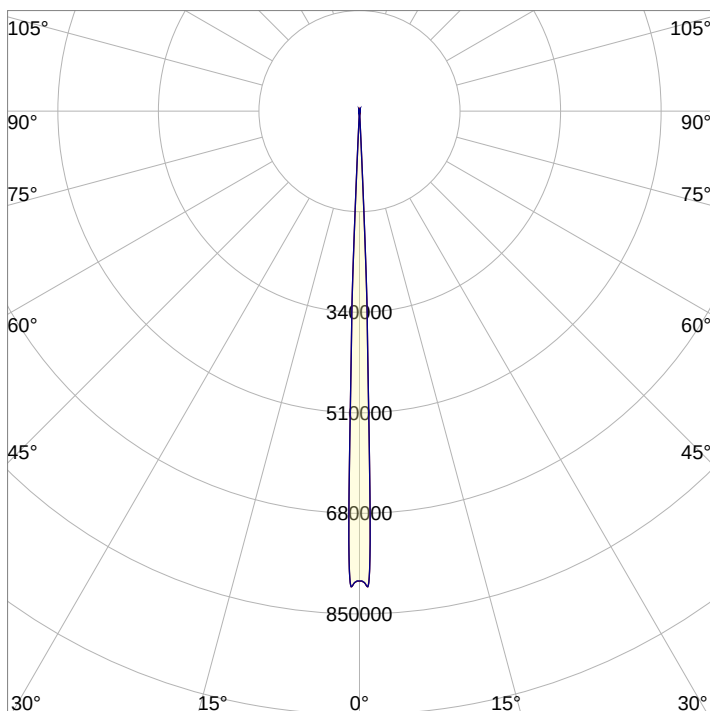


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	0.7 ft	1.1 ft	2.3 ft	3.4 ft	4.5 ft

Beam Intensities from 1-20m

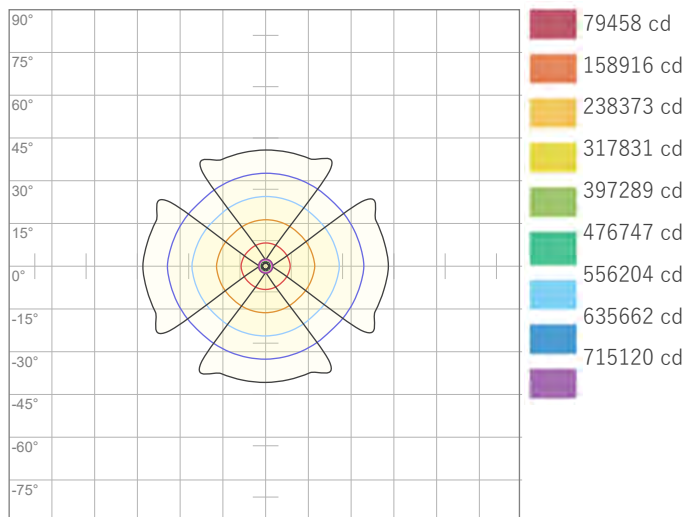
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	794578	198644	88286	49661	31783	22072	16216	12415	9810	7946	6567	5518	4702	4054	3531	3104	2749	2452	2201	1986
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	73818.7	18454.7	8202.1	4613.7	2952.7	2050.5	1506.5	1153.4	911.3	738.2	610.1	512.6	436.8	376.6	328.1	288.4	255.4	227.8	204.5	184.5

Angular Distribution



Beam Angle - 50%
4°
Field Angle - 10%
5.4°
Cutoff Angle - 2.5%
5.9°

ISO Diagrams

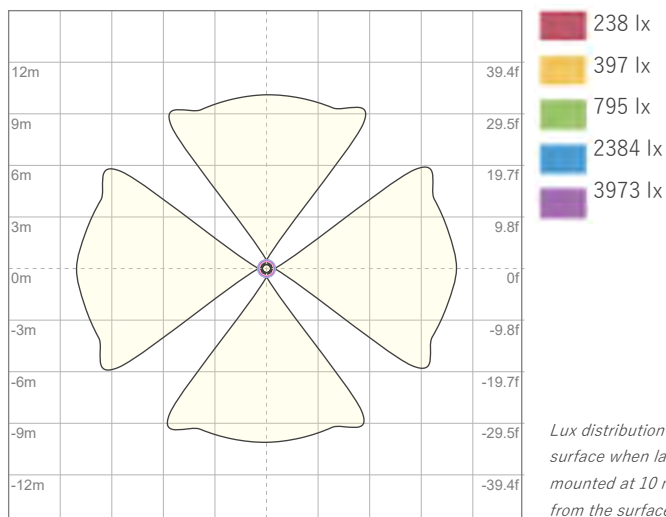


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 794578 cd



ISO LUX Diagram

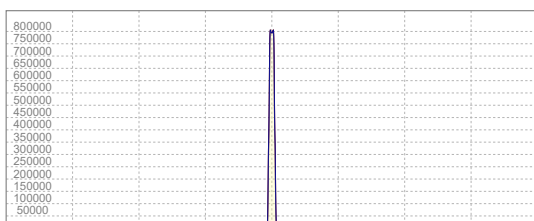
Conditions:

Number of c-planes: 8

LUX at center: 7946 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
803996 cd

Calculate Center Beam Intensities

$$\text{lux} = 803996 / \text{distance(m)}^2$$

$$\text{fc} = 803996 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 10760 lm

Peak Intensity: 16887 cd

Beam

Beam Angle (50%): 42.7°

Field Angle (10%): 47.7°

Cutoff Angle (2.5%): 51.7°

Color

Color Temperature: 6413 K

CRI: 71.5

TLCI: 53

TM30 R_F: 71.7

TM30 R_g: 96.0

Power Details

Efficacy: 22 Lumen/Watt

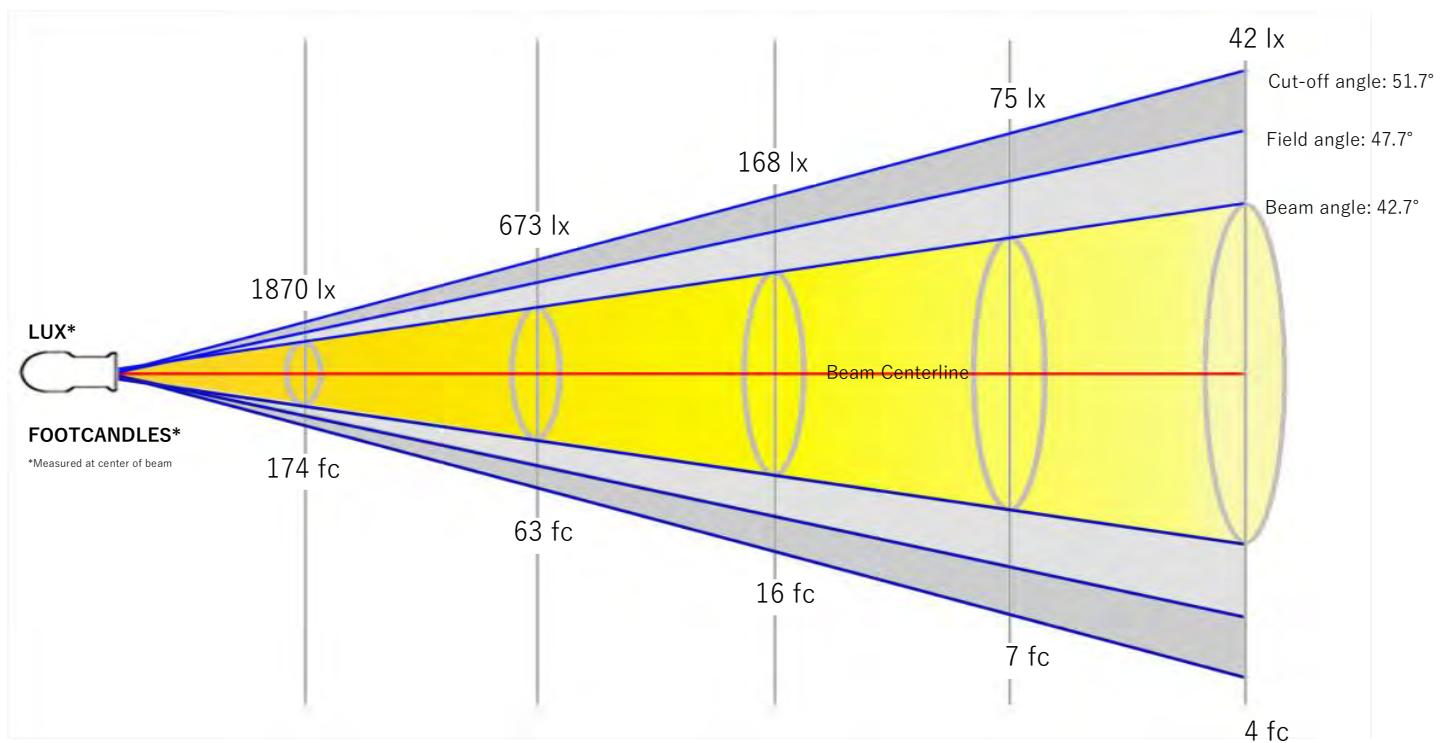
Power: 492 W

Supply Voltage: 114 V

Current: 4.32 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.3 m	3.9 m	7.8 m	11.7 m	15.6 m

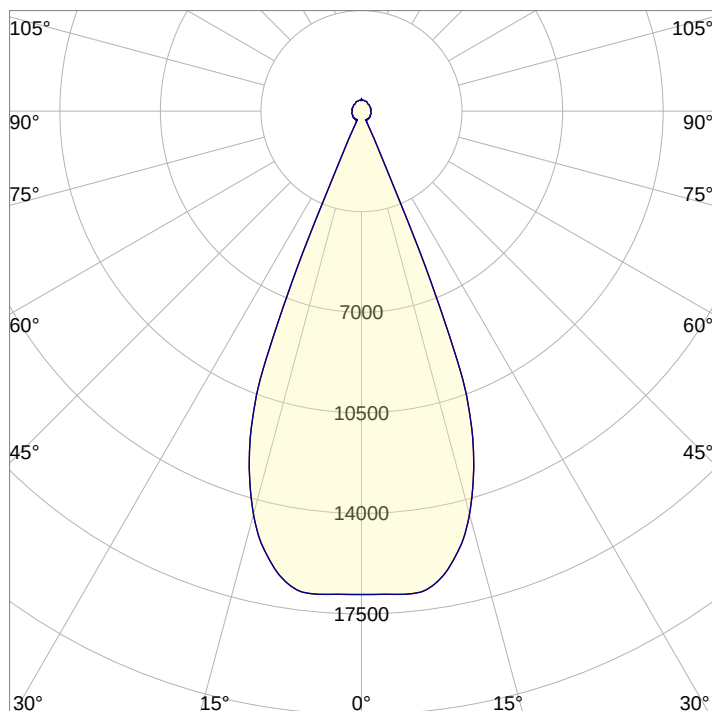


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7.7 ft	12.8 ft	25.6 ft	38.4 ft	51.2 ft

Beam Intensities from 1-20m

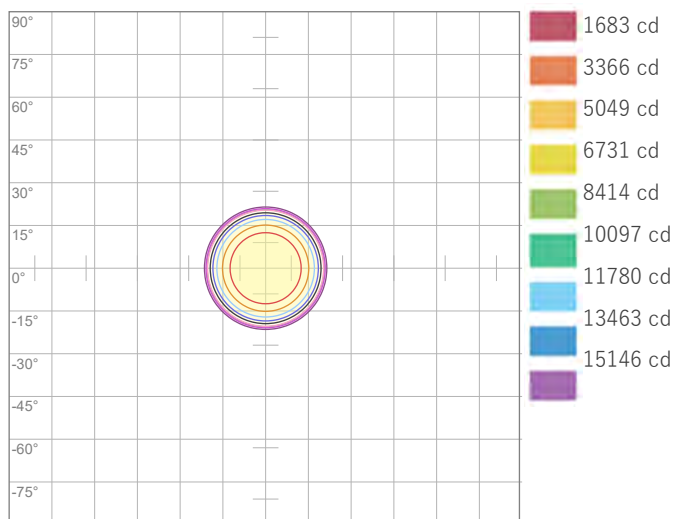
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	16829	4207	1870	1052	673	467	343	263	208	168	139	117	100	86	75	66	58	52	47	42
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1563.4	390.9	173.7	97.7	62.5	43.4	31.9	24.4	19.3	15.6	12.9	10.9	9.3	8	6.9	6.1	5.4	4.8	4.3	3.9

Angular Distribution



Beam Angle - 50%
42.7°
Field Angle - 10%
47.7°
Cutoff Angle - 2.5%
51.7°

ISO Diagrams

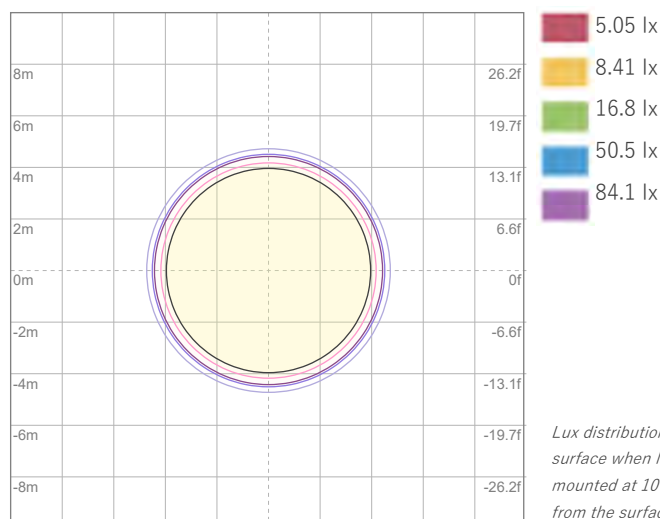


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 16829 cd



ISO LUX Diagram

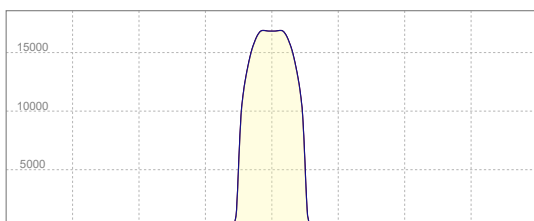
Conditions:

Number of c-planes: 8

LUX at center: 168 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
16887 cd

Calculate Center Beam Intensities

$$\text{lux} = 16887 / \text{distance(m)}^2$$

$$\text{fc} = 16887 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 8576 lm

Peak Intensity: 108374 cd

Beam

Beam Angle (50%): 14.1°

Field Angle (10%): 17.3°

Cutoff Angle (2.5%): 18.5°

Color

Color Temperature: 6183 K

CRI: 70.5

TLCI: 51

TM30 R_F: 71.1

TM30 R_g: 95.6

Power Details

Efficacy: 17 Lumen/Watt

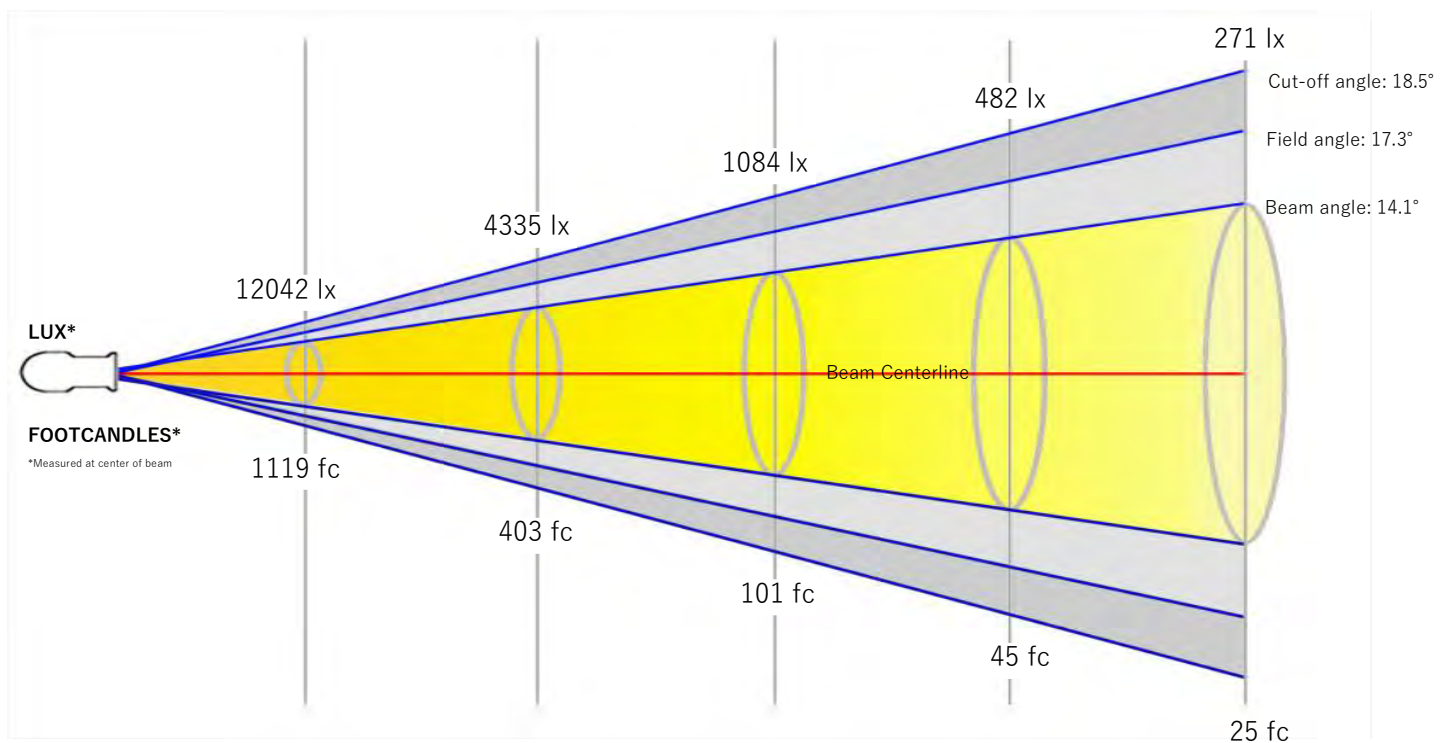
Power: 492 W

Supply Voltage: 114 V

Current: 4.32 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.7 m	1.2 m	2.5 m	3.7 m	4.9 m

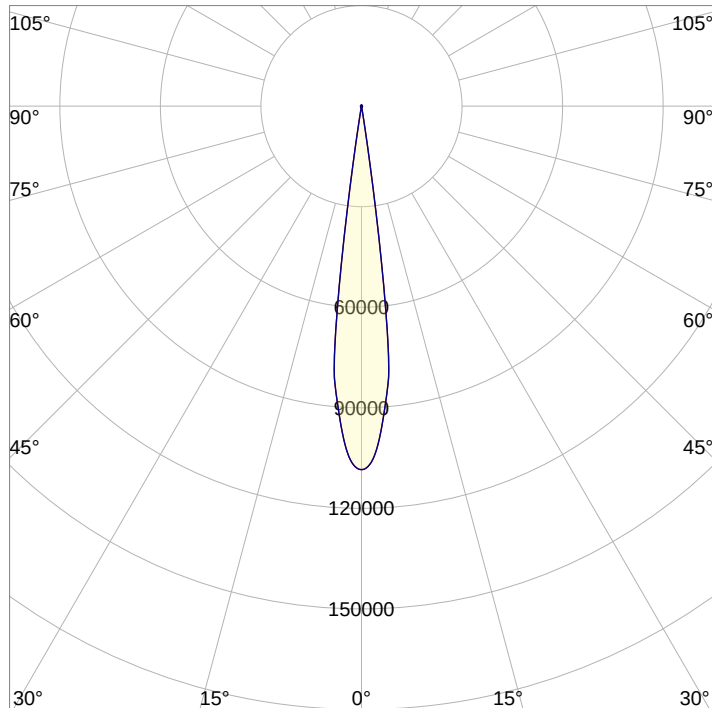


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	2.4 ft	4 ft	8.1 ft	12.1 ft	16.2 ft

Beam Intensities from 1-20m

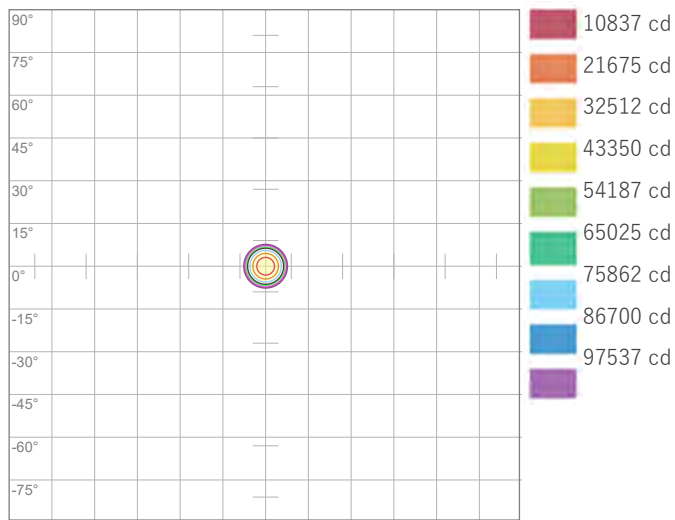
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	108374	27094	12042	6773	4335	3010	2212	1693	1338	1084	896	753	641	553	482	423	375	334	300	271
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	10068.3	2517.1	1118.7	629.3	402.7	279.7	205.5	157.3	124.3	100.7	83.2	69.9	59.6	51.4	44.7	39.3	34.8	31.1	27.9	25.2

Angular Distribution



Beam Angle - 50%
14.1°
Field Angle - 10%
17.3°
Cutoff Angle - 2.5%
18.5°

ISO Diagrams

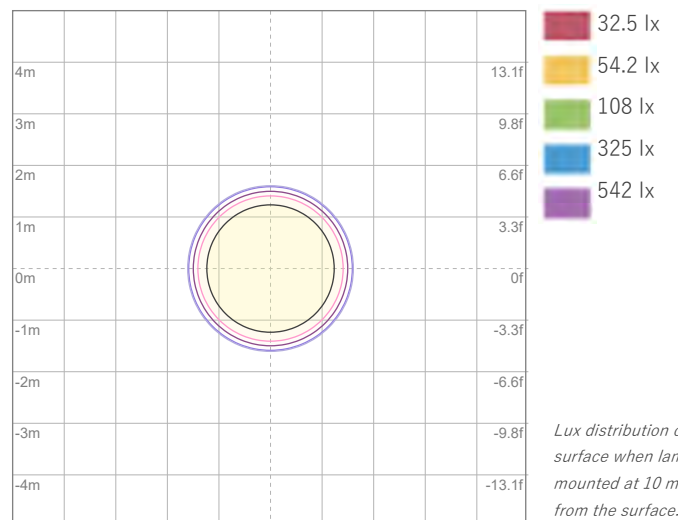


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 108374 cd



ISO LUX Diagram

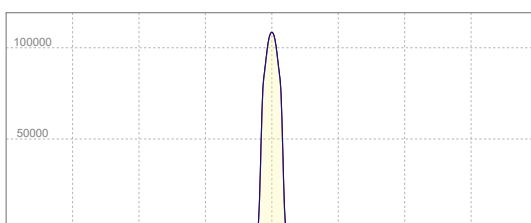
Conditions:

Number of c-planes: 8

LUX at center: 1084 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
108374 cd

Calculate Center Beam Intensities

$$\text{lux} = 108374 / \text{distance(m)}^2$$

$$\text{fc} = 108374 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 10237 lm

Peak Intensity: 490313 cd

Beam

Beam Angle (50%): 7.7°

Field Angle (10%): 9.7°

Cutoff Angle (2.5%): 10.5°

Color

Color Temperature: 6207 K

CRI: 70.3

TLCI: 50

TM30 R_F: 70.6

TM30 R_g: 95.7

Power Details

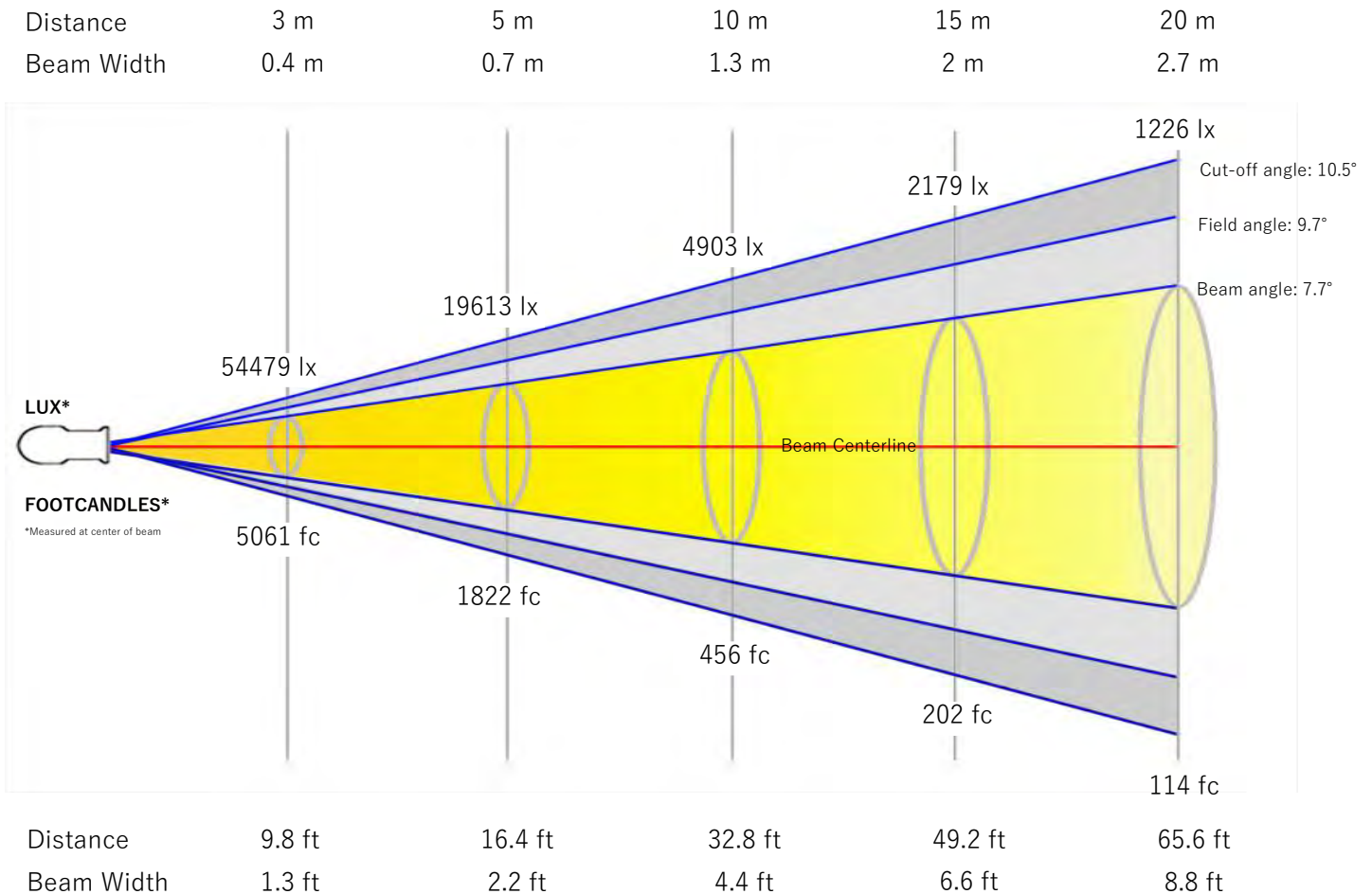
Efficacy: 21 Lumen/Watt

Power: 492 W

Supply Voltage: 116 V

Current: 4.24 A

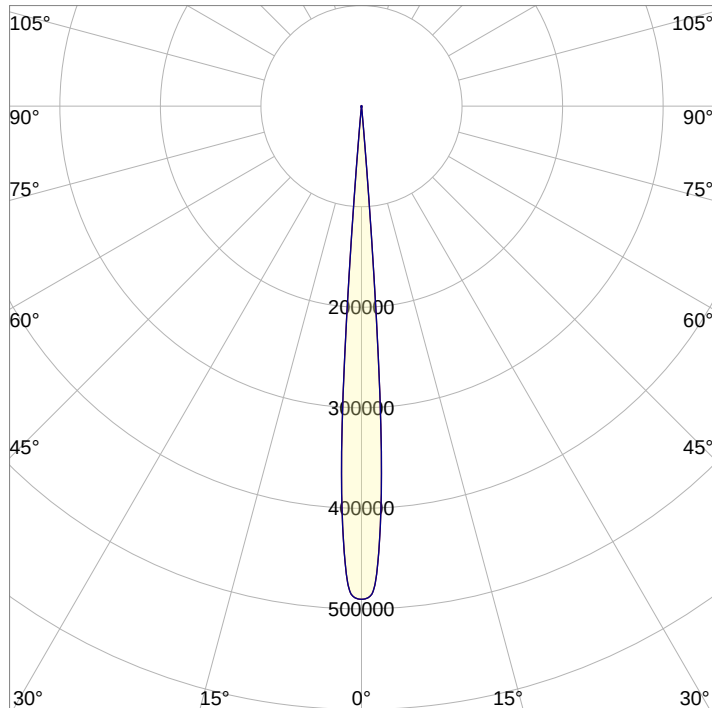
Beam Details



Beam Intensities from 1-20m

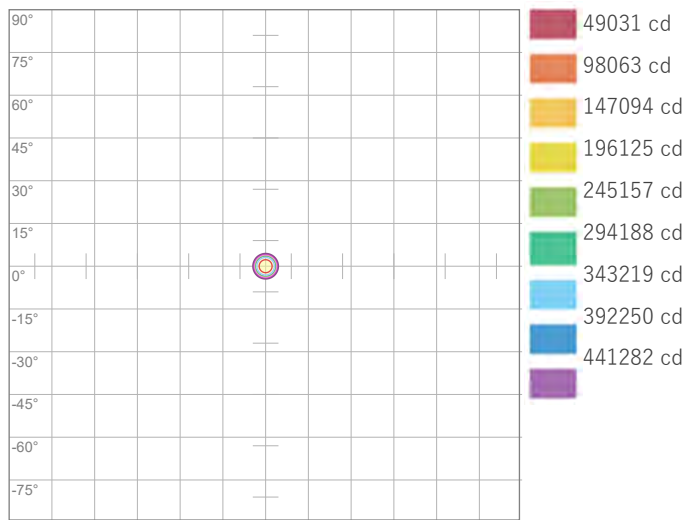
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	490313	122578	54479	30645	19613	13620	10006	7661	6053	4903	4052	3405	2901	2502	2179	1915	1697	1513	1358	1226
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	45551.6	11387.9	5061.3	2847	1822.1	1265.3	929.6	711.7	562.4	455.5	376.5	316.3	269.5	232.4	202.5	177.9	157.6	140.6	126.2	113.9

Angular Distribution



Beam Angle - 50%
7.7°
Field Angle - 10%
9.7°
Cutoff Angle - 2.5%
10.5°

ISO Diagrams

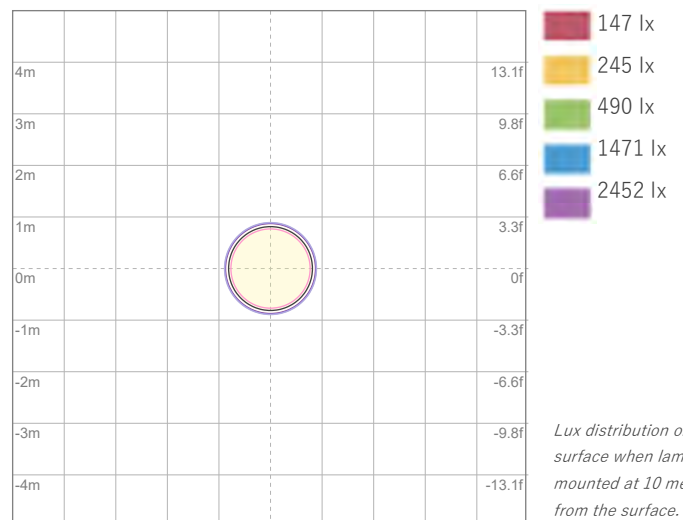


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 490313 cd



ISO LUX Diagram

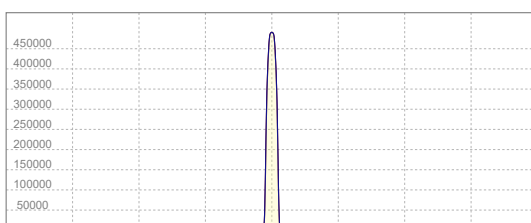
Conditions:

Number of c-planes: 8

LUX at center: 4903 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
490313 cd

Calculate Center Beam Intensities

$$\text{lux} = 490313 / \text{distance(m)}^2$$

$$\text{fc} = 490313 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 10079 lm

Peak Intensity: 16865 cd

Beam

Beam Angle (50%): 42.9°

Field Angle (10%): 46°

Cutoff Angle (2.5%): 48.4°

Color

Color Temperature: 6327 K

CRI: 78.8

TLCI: 70

TM30 R_F: 78.7

TM30 R_g: 98.1

Power Details

Efficacy: 24 Lumen/Watt

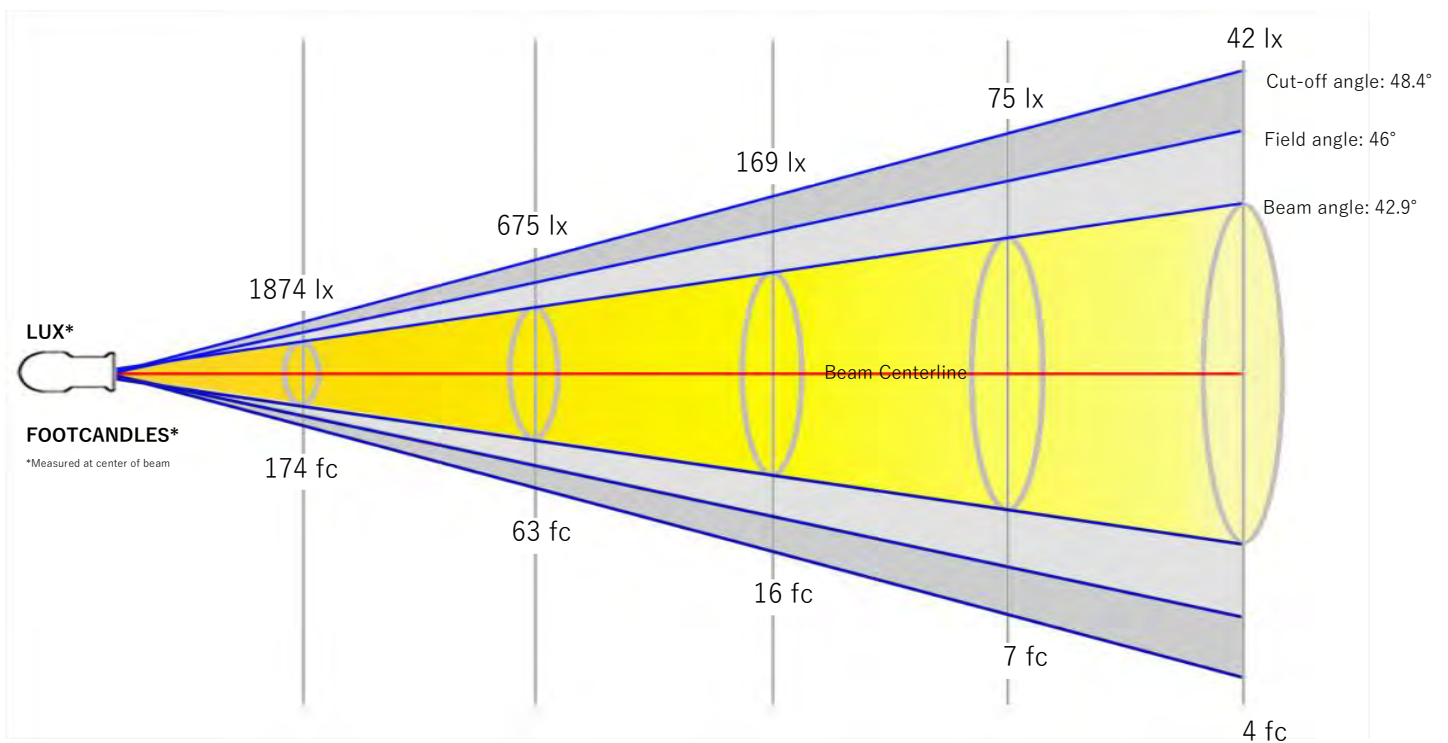
Power: 419 W

Supply Voltage: 116 V

Current: 3.61 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.4 m	3.9 m	7.8 m	11.8 m	15.7 m

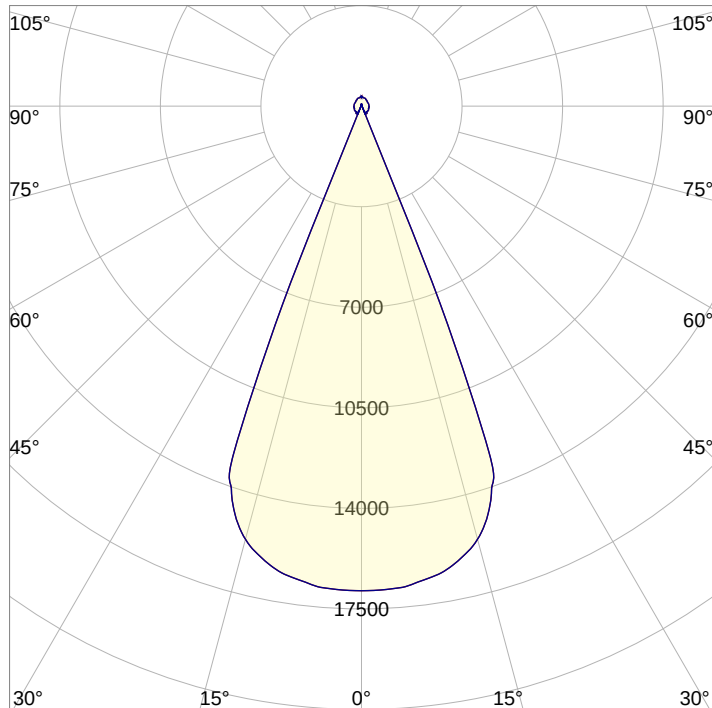


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7.7 ft	12.9 ft	25.7 ft	38.6 ft	51.5 ft

Beam Intensities from 1-20m

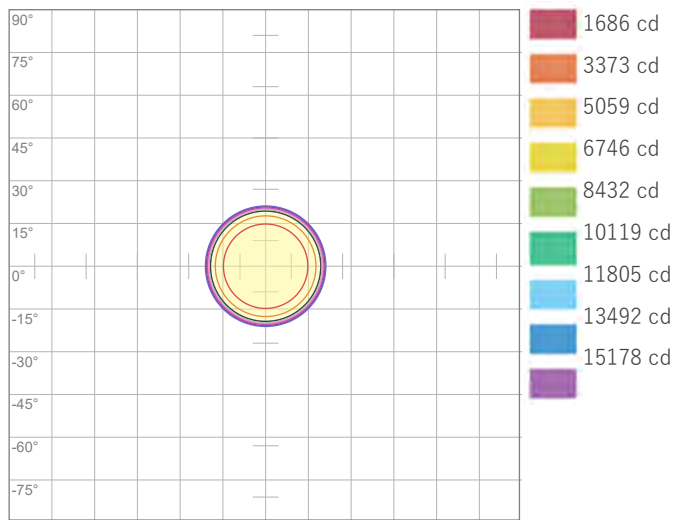
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	16865	4216	1874	1054	675	468	344	264	208	169	139	117	100	86	75	66	58	52	47	42
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1566.8	391.7	174.1	97.9	62.7	43.5	32	24.5	19.3	15.7	12.9	10.9	9.3	8	7	6.1	5.4	4.8	4.3	3.9

Angular Distribution



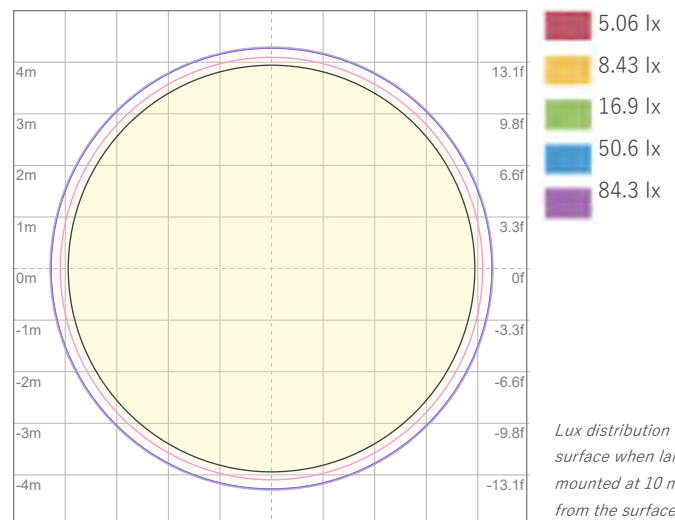
Beam Angle - 50%
42.9°
Field Angle - 10%
46°
Cutoff Angle - 2.5%
48.4°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 8
Candela at center: 16865 cd

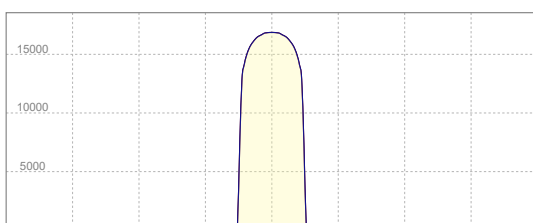


ISO LUX Diagram

Conditions:
Number of c-planes: 8
LUX at center: 169 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
16865 cd

Calculate Center Beam Intensities

$$\text{lux} = 16865 / \text{distance(m)}^2$$

$$\text{fc} = 16865 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 9643 lm

Peak Intensity: 127259 cd

Beam

Beam Angle (50%): 15.1°

Field Angle (10%): 15.9°

Cutoff Angle (2.5%): 16.6°

Color

Color Temperature: 6210 K

CRI: 78.4

TLCI: 69

TM30 R_F: 78.4

TM30 R_g: 98.0

Power Details

Efficacy: 23 Lumen/Watt

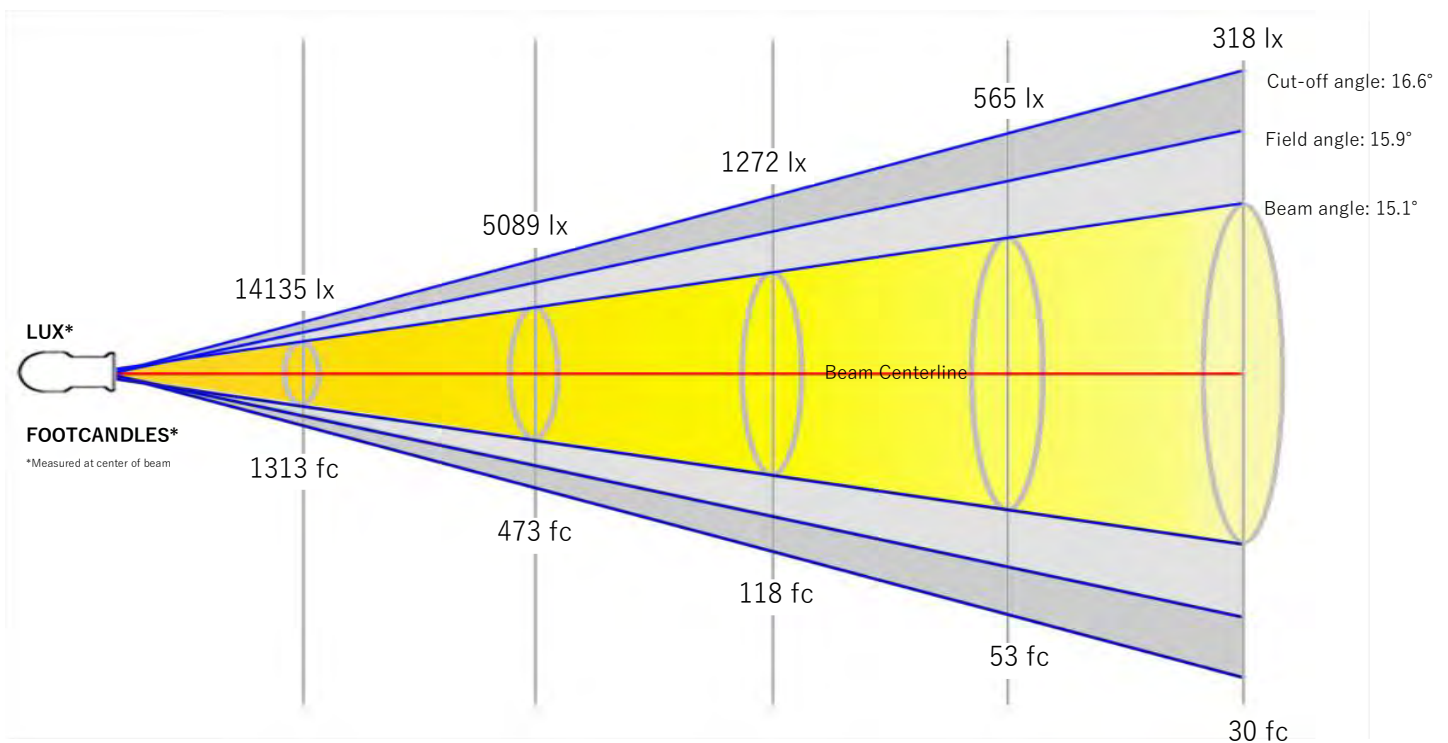
Power: 421 W

Supply Voltage: 115 V

Current: 3.66 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.8 m	1.3 m	2.7 m	4 m	5.3 m

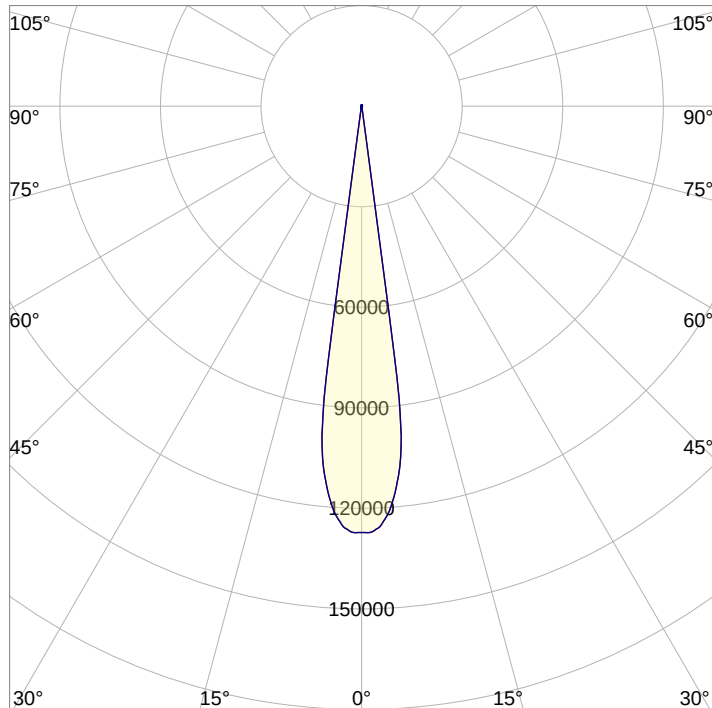


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	2.6 ft	4.4 ft	8.7 ft	13.1 ft	17.4 ft

Beam Intensities from 1-20m

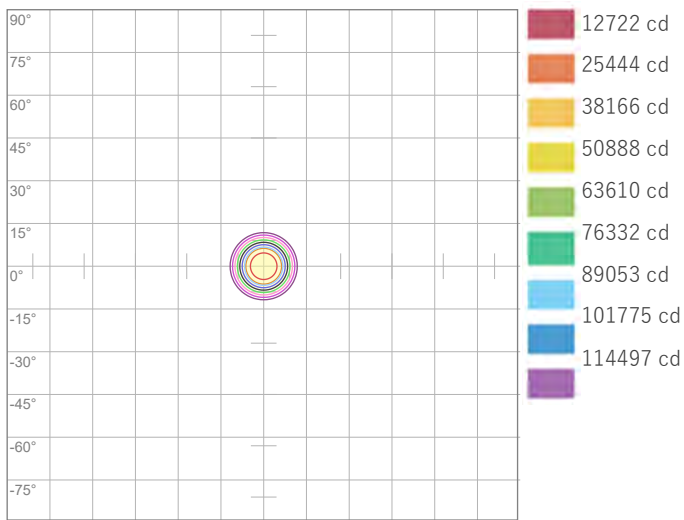
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	127219	31805	14135	7951	5089	3534	2596	1988	1571	1272	1051	883	753	649	565	497	440	393	352	318
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	11819.1	2954.8	1313.2	738.7	472.8	328.3	241.2	184.7	145.9	118.2	97.7	82.1	69.9	60.3	52.5	46.2	40.9	36.5	32.7	29.5

Angular Distribution



Beam Angle - 50%
15.1°
Field Angle - 10%
15.9°
Cutoff Angle - 2.5%
16.6°

ISO Diagrams

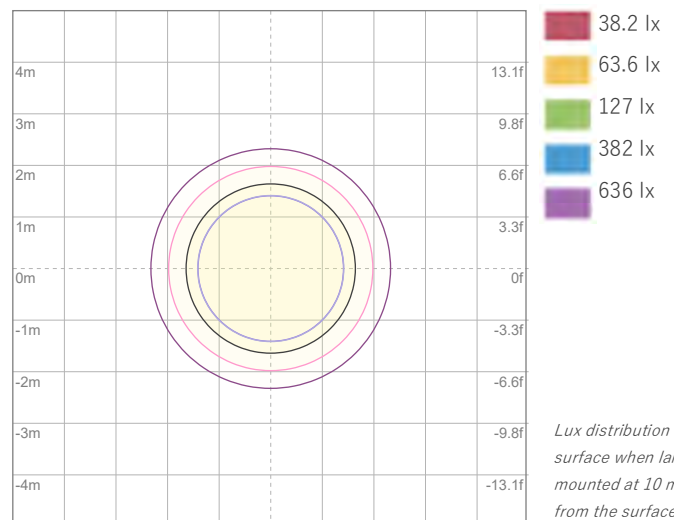


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 127219 cd



ISO LUX Diagram

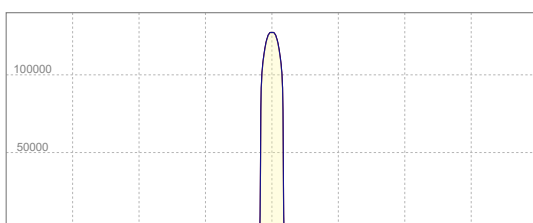
Conditions:

Number of c-planes: 8

LUX at center: 1272 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
127259 cd

Calculate Center Beam Intensities

$$\text{lux} = 127259 / \text{distance(m)}^2$$

$$\text{fc} = 127259 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 6128 lm

Peak Intensity: 623453 cd

Beam

Beam Angle (50%): 4.3°

Field Angle (10%): 5.6°

Cutoff Angle (2.5%): 6.1°

Color

Color Temperature: 6153 K

CRI: 79.6

TLCI: 73

TM30 R_F: 79.6

TM30 R_g: 98.3

Power Details

Efficacy: 15 Lumen/Watt

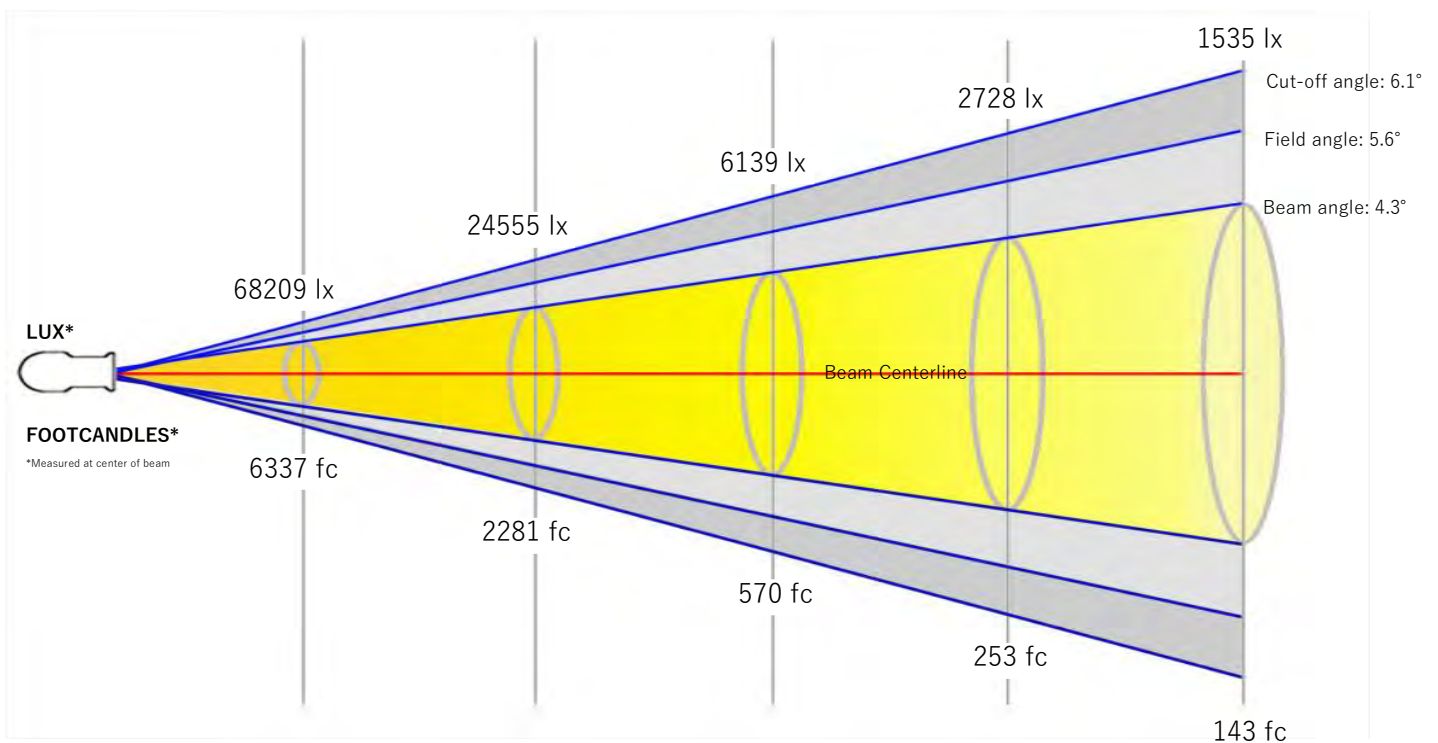
Power: 422 W

Supply Voltage: 115 V

Current: 3.67 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.2 m	0.4 m	0.8 m	1.1 m	1.5 m

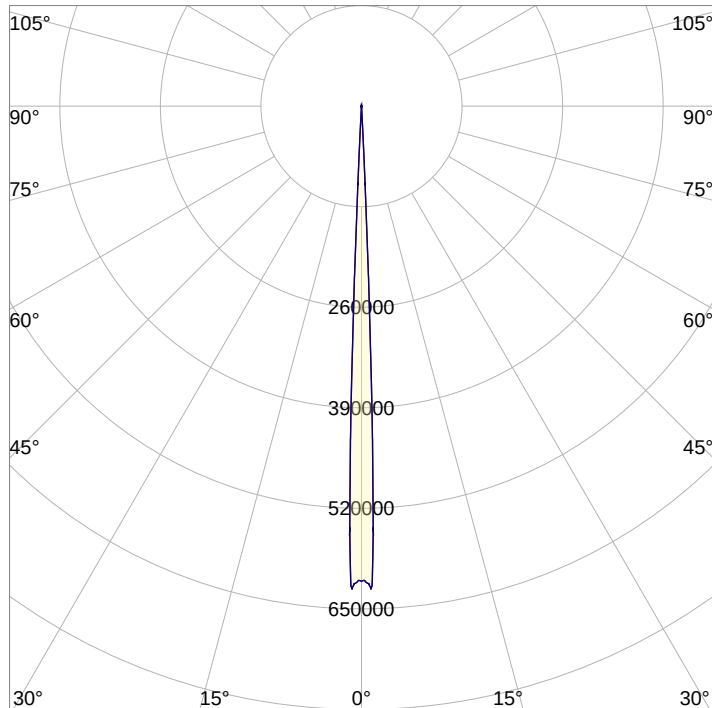


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	0.7 ft	1.2 ft	2.5 ft	3.7 ft	4.9 ft

Beam Intensities from 1-20m

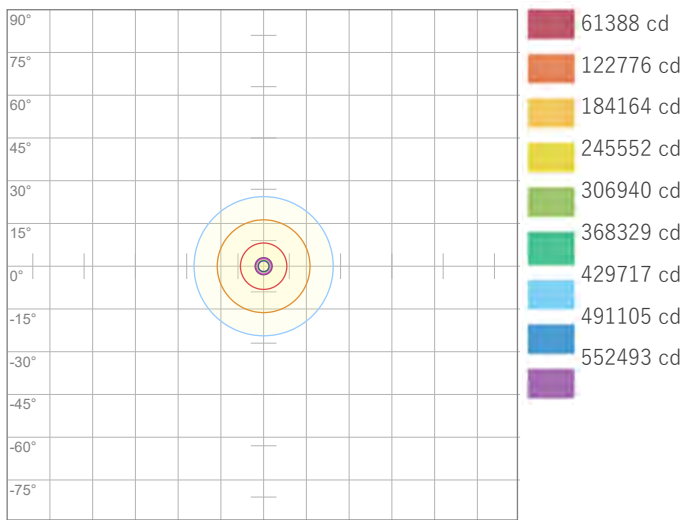
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	613881	153470	68209	38368	24555	17052	12528	9592	7579	6139	5073	4263	3632	3132	2728	2398	2124	1895	1701	1535
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	57031.4	14257.8	6336.8	3564.5	2281.3	1584.2	1163.9	891.1	704.1	570.3	471.3	396.1	337.5	291	253.5	222.8	197.3	176	158	142.6

Angular Distribution



Beam Angle - 50%
4.3°
Field Angle - 10%
5.6°
Cutoff Angle - 2.5%
6.1°

ISO Diagrams

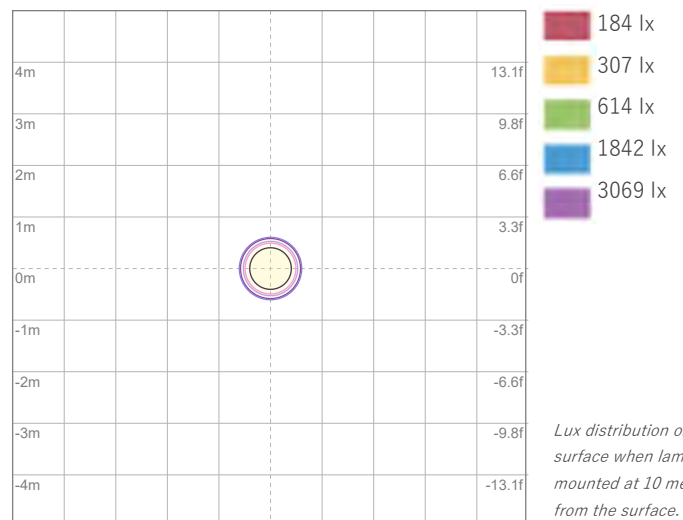


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 613881 cd



ISO LUX Diagram

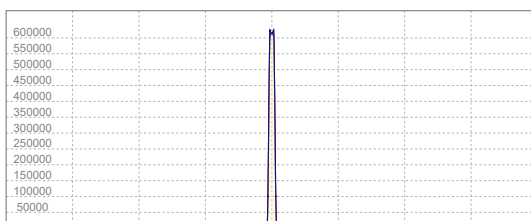
Conditions:

Number of c-planes: 8

LUX at center: 6139 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
623453 cd

Calculate Center Beam Intensities

$$\text{lux} = 623453 / \text{distance(m)}^2$$

$$\text{fc} = 623453 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 6282 lm

Peak Intensity: 7646 cd

Beam

Beam Angle (50%): 43°

Field Angle (10%): 46.5°

Cutoff Angle (2.5%): 360°

Color

Color Temperature: 8150 K

CRI: 92.3

TLCI: 96

TM30 R_F: 90.8

TM30 R_g: 101.2

Power Details

Efficacy: 24 Lumen/Watt

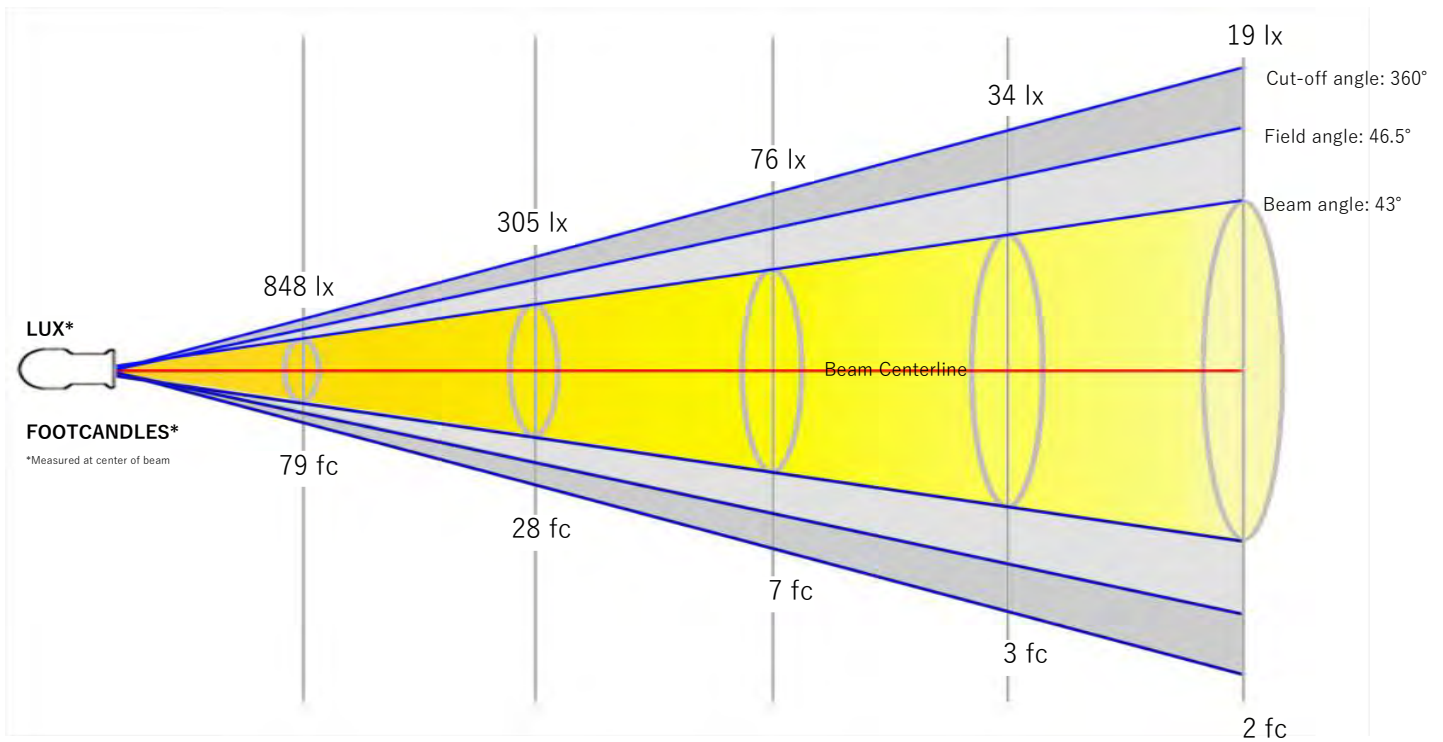
Power: 267 W

Supply Voltage: 116 V

Current: 2.30 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.4 m	3.9 m	7.9 m	11.8 m	15.8 m

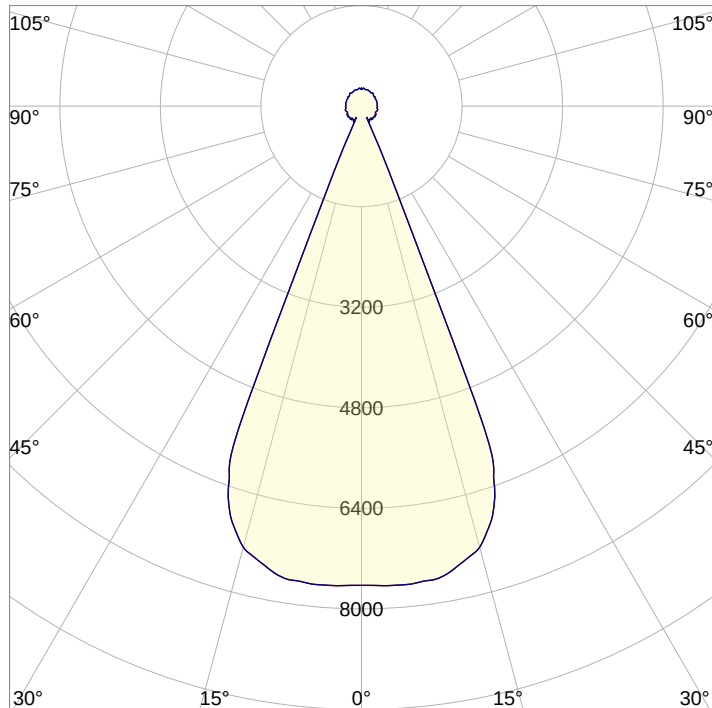


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7.7 ft	12.9 ft	25.8 ft	38.8 ft	51.7 ft

Beam Intensities from 1-20m

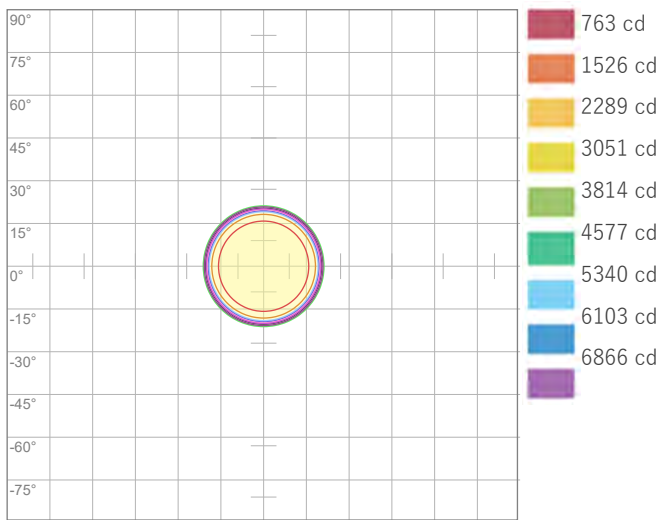
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	7628	1907	848	477	305	212	156	119	94	76	63	53	45	39	34	30	26	24	21	19
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	708.7	177.2	78.7	44.3	28.3	19.7	14.5	11.1	8.7	7.1	5.9	4.9	4.2	3.6	3.1	2.8	2.5	2.2	2	1.8

Angular Distribution



Beam Angle - 50%
43°
Field Angle - 10%
46.5°
Cutoff Angle - 2.5%
360°

ISO Diagrams

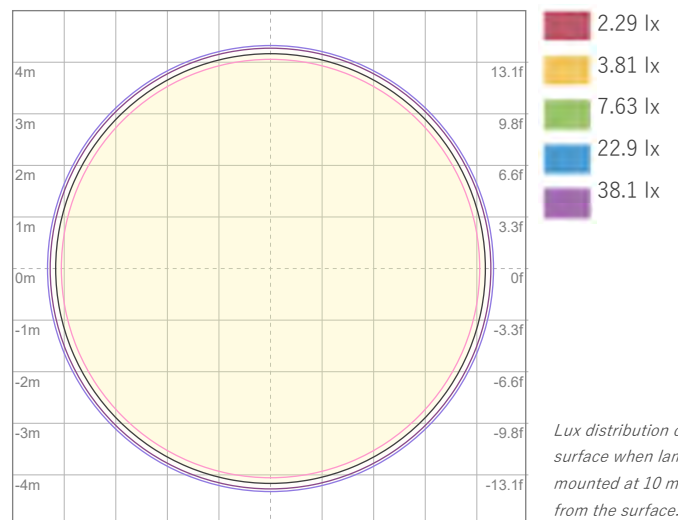


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 7628 cd



ISO LUX Diagram

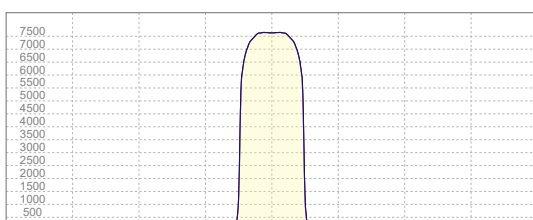
Conditions:

Number of c-planes: 8

LUX at center: 76.3 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
7646 cd

Calculate Center Beam Intensities

$$\text{lux} = 7646 / \text{distance(m)}^2$$

$$\text{fc} = 7646 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 6060 lm

Peak Intensity: 56929 cd

Beam

Beam Angle (50%): 15°

Field Angle (10%): 16.2°

Cutoff Angle (2.5%): 16.6°

Color

Color Temperature: 6094 K

CRI: 89.9

TLCI: 93

TM30 R_F: 88.6

TM30 R_g: 99.6

Power Details

Efficacy: 23 Lumen/Watt

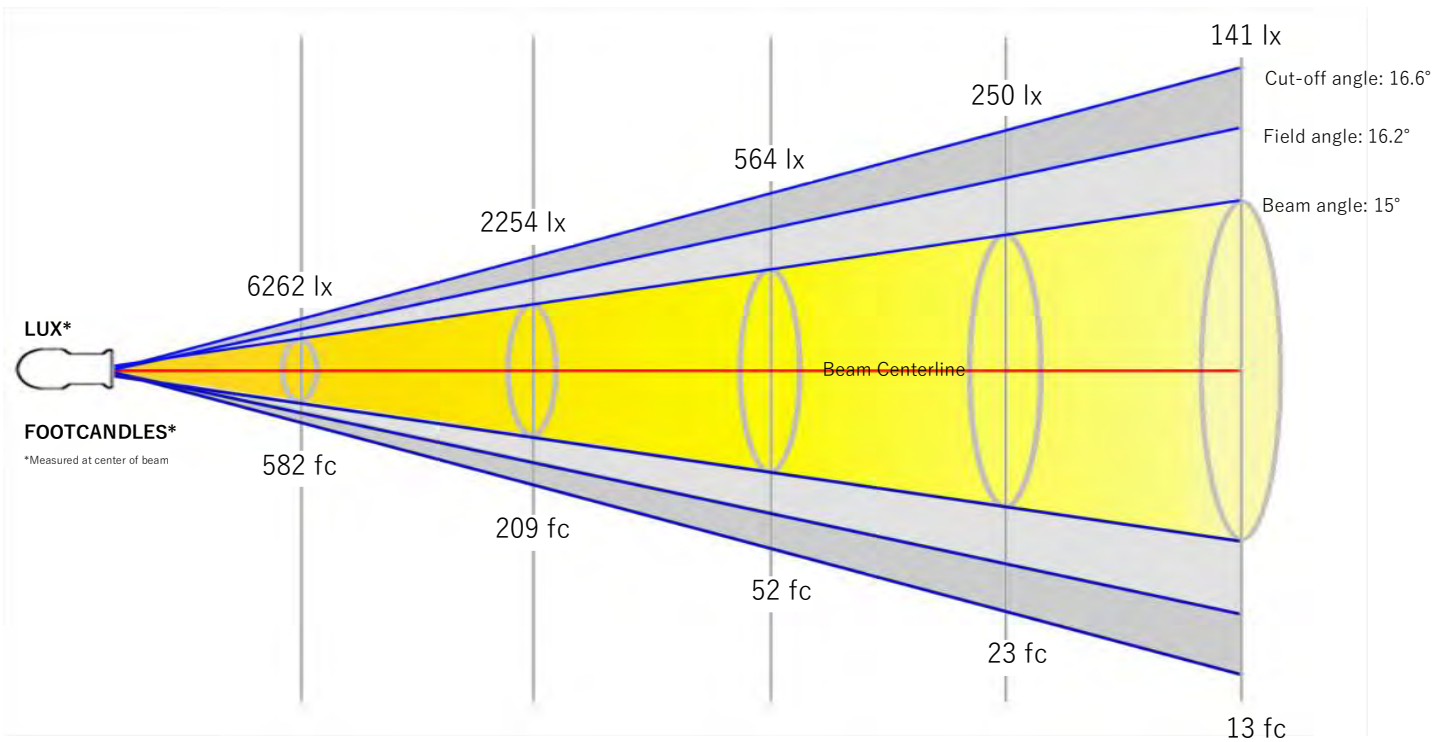
Power: 267 W

Supply Voltage: 117 V

Current: 2.28 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.8 m	1.3 m	2.6 m	4 m	5.3 m

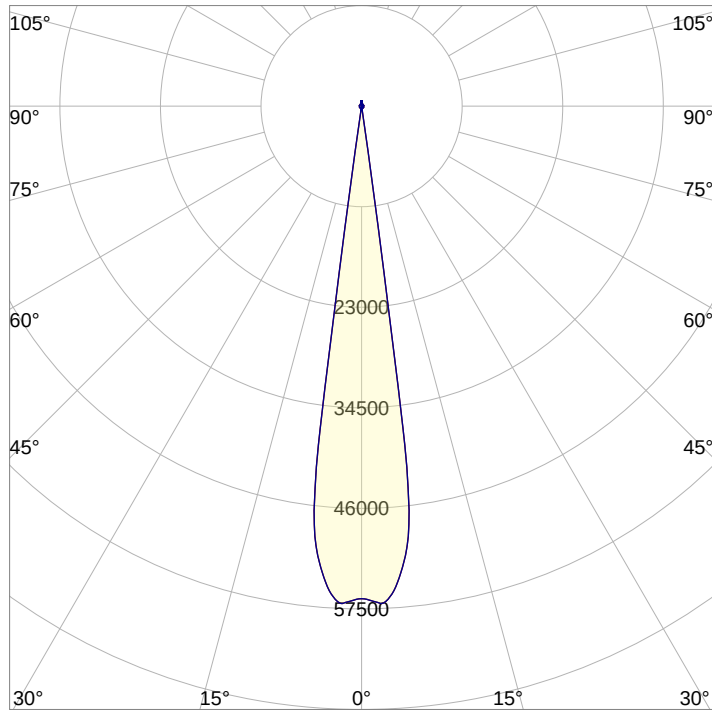


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	2.6 ft	4.3 ft	8.6 ft	13 ft	17.3 ft

Beam Intensities from 1-20m

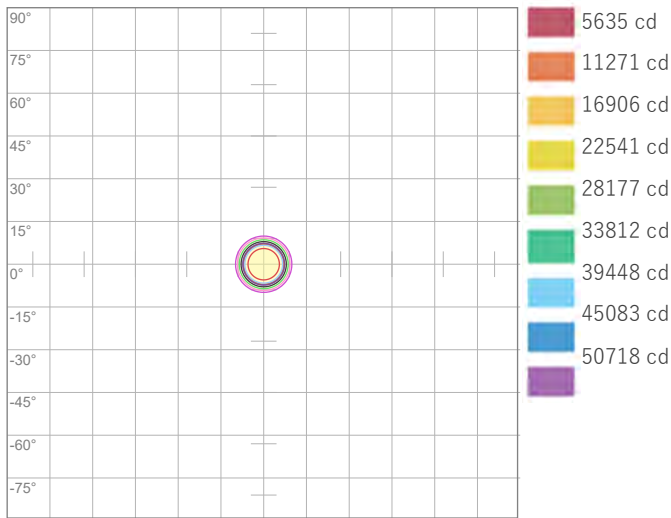
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	56354	14088	6262	3522	2254	1565	1150	881	696	564	466	391	333	288	250	220	195	174	156	141
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	5235.4	1308.9	581.7	327.2	209.4	145.4	106.8	81.8	64.6	52.4	43.3	36.4	31	26.7	23.3	20.5	18.1	16.2	14.5	13.1

Angular Distribution



Beam Angle - 50%
15°
Field Angle - 10%
16.2°
Cutoff Angle - 2.5%
16.6°

ISO Diagrams

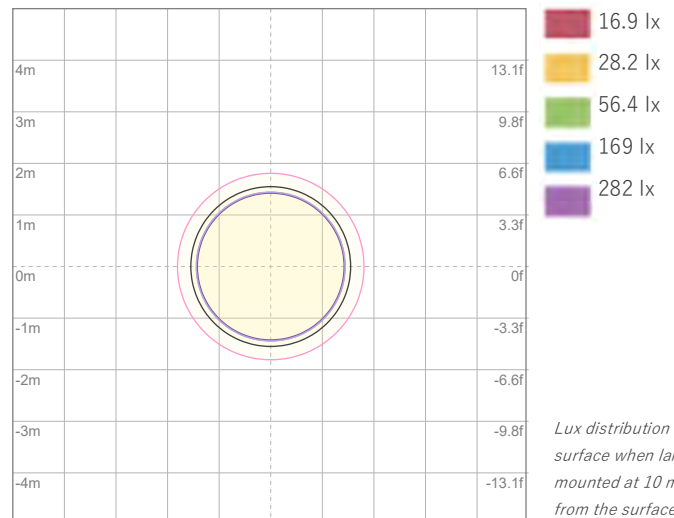


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 56354 cd



ISO LUX Diagram

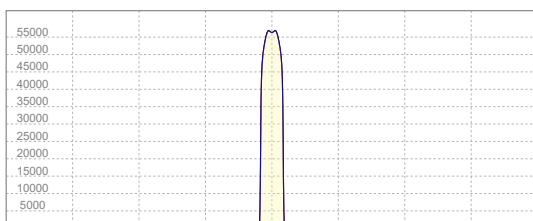
Conditions:

Number of c-planes: 8

LUX at center: 564 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
56929 cd

Calculate Center Beam Intensities

$$\text{lux} = 56929 / \text{distance(m)}^2$$

$$\text{fc} = 56929 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 4788 lm

Peak Intensity: 322751 cd

Beam

Beam Angle (50%): 4.3°

Field Angle (10%): 5.6°

Cutoff Angle (2.5%): 6.1°

Color

Color Temperature: 6027 K

CRI: 89.7

TLCI: 93

TM30 R_F: 88.5

TM30 R_g: 99.6

Power Details

Efficacy: 18 Lumen/Watt

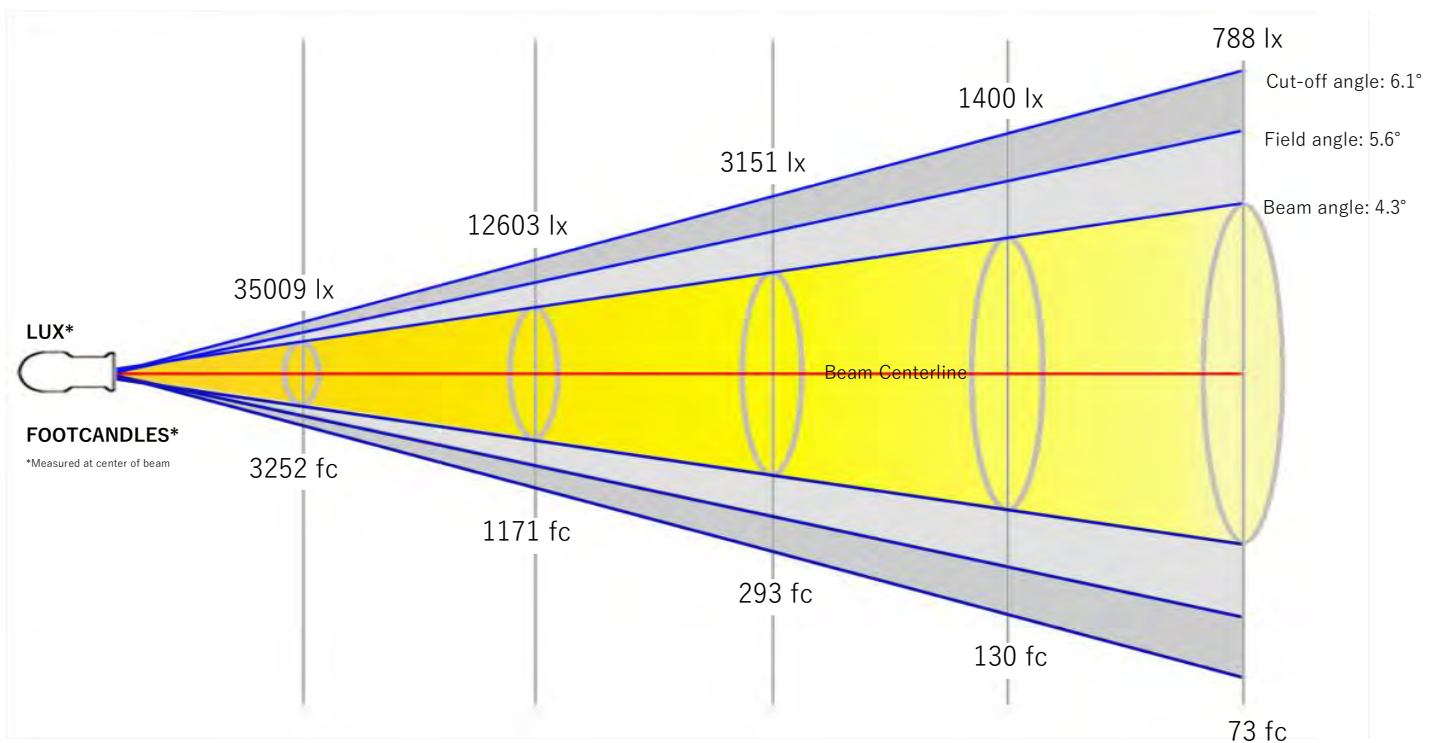
Power: 267 W

Supply Voltage: 117 V

Current: 2.28 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.2 m	0.4 m	0.7 m	1.1 m	1.5 m

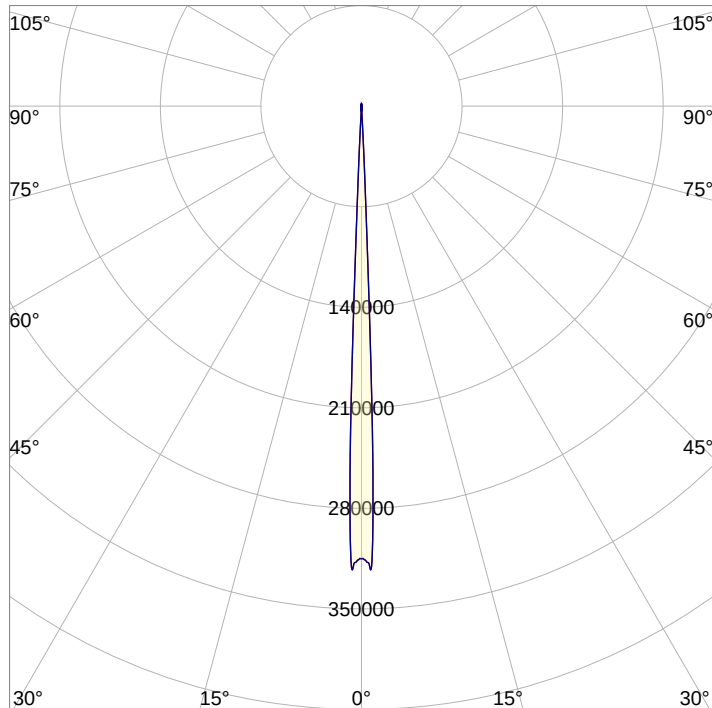


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	0.7 ft	1.2 ft	2.5 ft	3.7 ft	4.9 ft

Beam Intensities from 1-20m

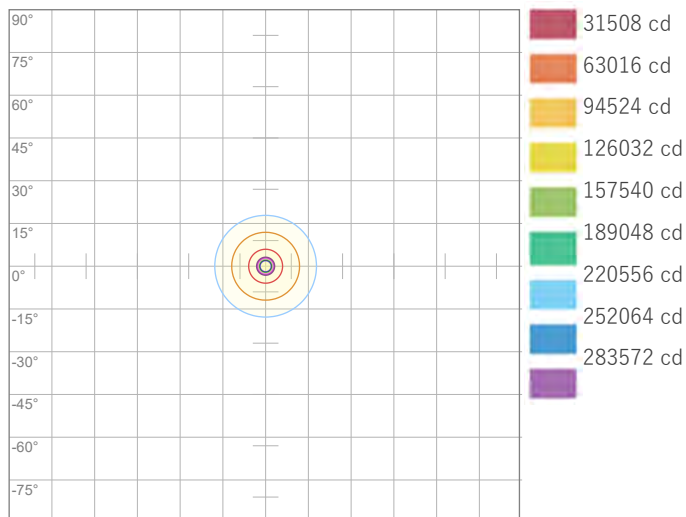
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	315080	78770	35009	19693	12603	8752	6430	4923	3890	3151	2604	2188	1864	1608	1400	1231	1090	972	873	788
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	29271.9	7318	3252.4	1829.5	1170.9	813.1	597.4	457.4	361.4	292.7	241.9	203.3	173.2	149.3	130.1	114.3	101.3	90.3	81.1	73.2

Angular Distribution



Beam Angle - 50%
4.3°
Field Angle - 10%
5.6°
Cutoff Angle - 2.5%
6.1°

ISO Diagrams

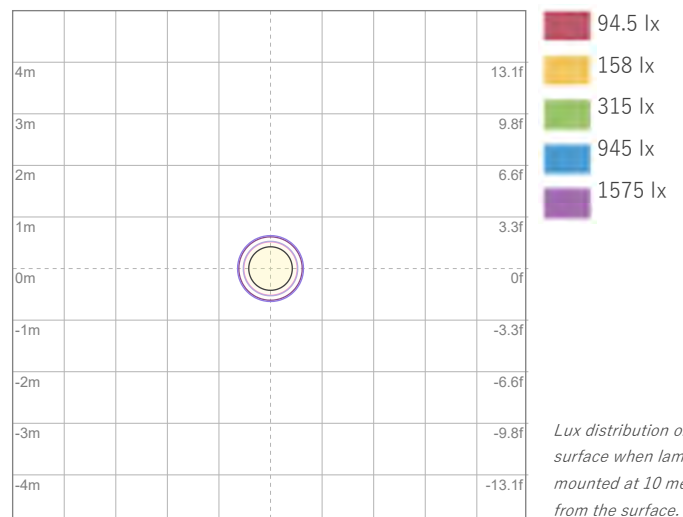


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 315080 cd



ISO LUX Diagram

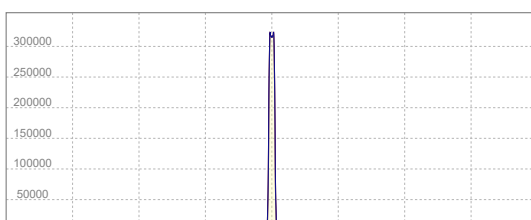
Conditions:

Number of c-planes: 8

LUX at center: 3151 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
322751 cd

Calculate Center Beam Intensities

$$\text{lux} = 322751 / \text{distance(m)}^2$$

$$\text{fc} = 322751 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 8182 lm

Peak Intensity: 12640 cd

Beam

Beam Angle (50%): 42.8°

Field Angle (10%): 45.9°

Cutoff Angle (2.5%): 49.1°

Color

Color Temperature: 6391 K

CRI: 70.5

TLCI: 51

TM30 R_F: 70.7

TM30 R_g: 96.2

Power Details

Efficacy: 29 Lumen/Watt

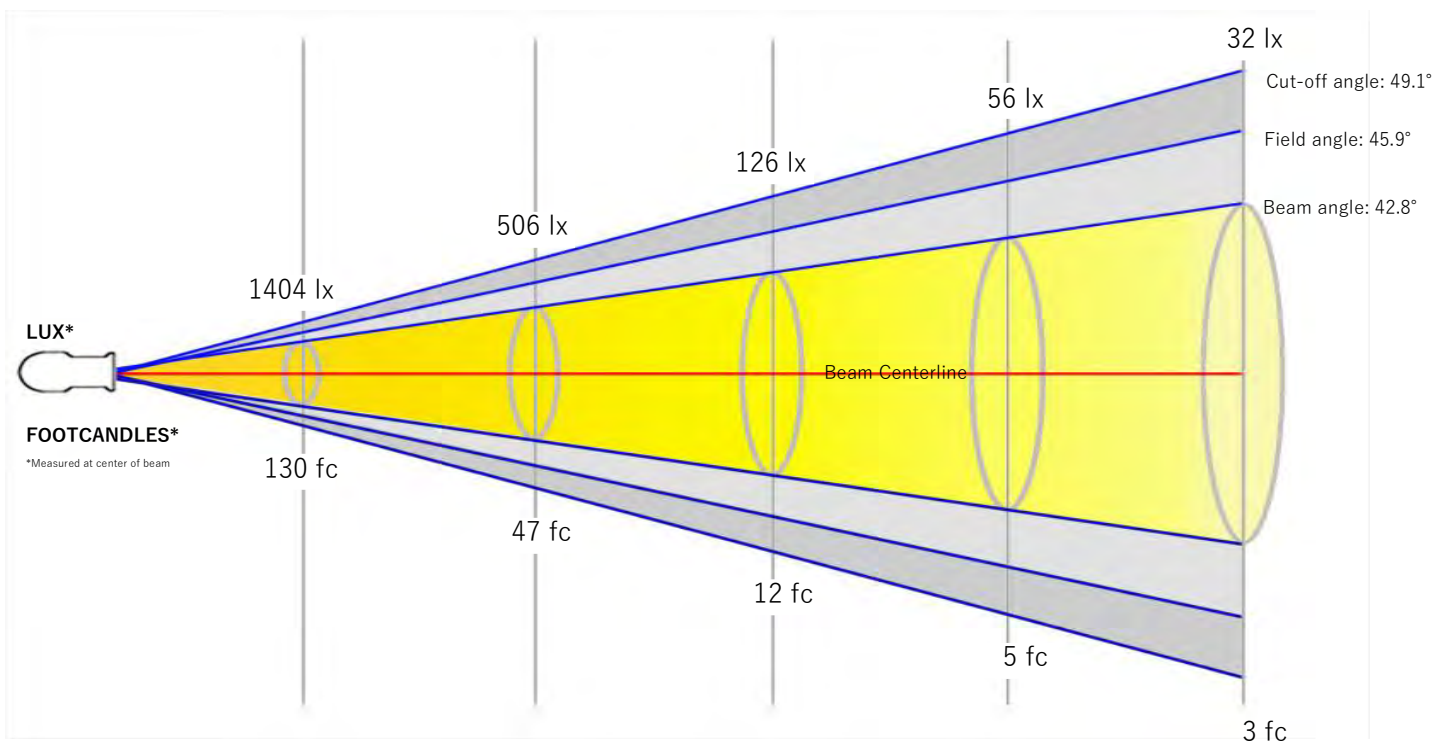
Power: 280 W

Supply Voltage: 116 V

Current: 2.41 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.4 m	3.9 m	7.8 m	11.8 m	15.7 m

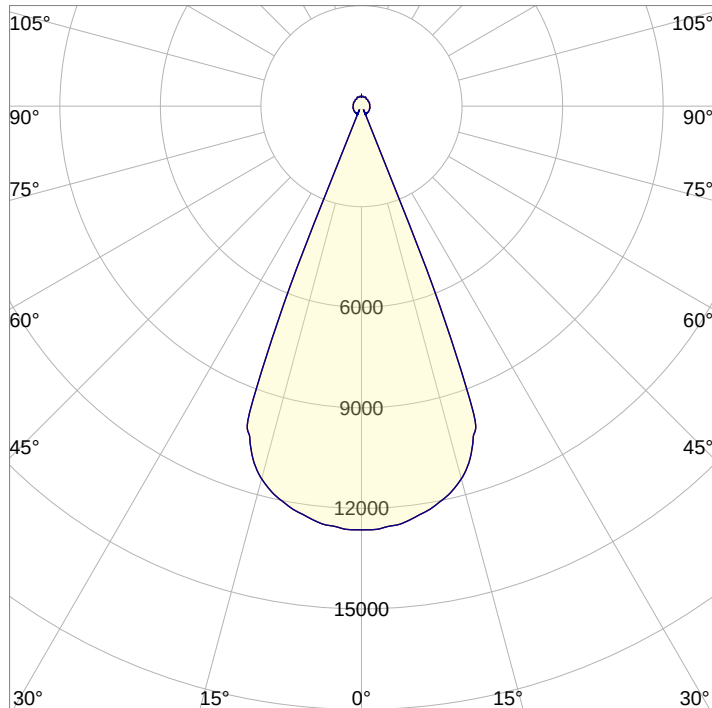


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7.7 ft	12.9 ft	25.7 ft	38.6 ft	51.4 ft

Beam Intensities from 1-20m

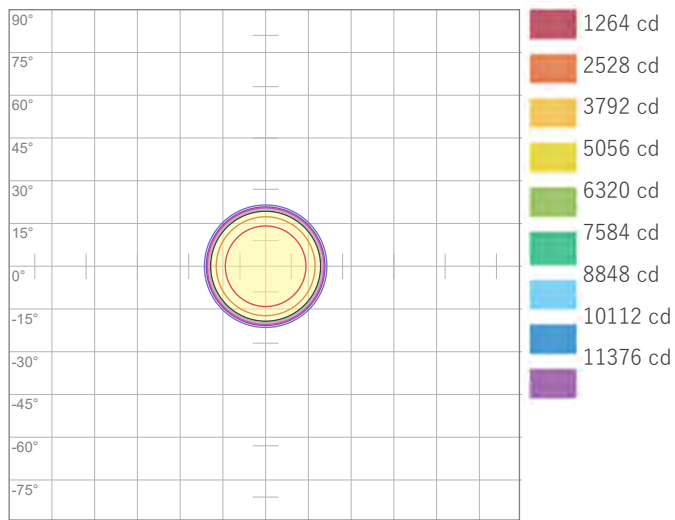
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	12640	3160	1404	790	506	351	258	198	156	126	104	88	75	64	56	49	44	39	35	32
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1174.3	293.6	130.5	73.4	47	32.6	24	18.3	14.5	11.7	9.7	8.2	6.9	6	5.2	4.6	4.1	3.6	3.3	2.9

Angular Distribution



Beam Angle - 50%
42.8°
Field Angle - 10%
45.9°
Cutoff Angle - 2.5%
49.1°

ISO Diagrams

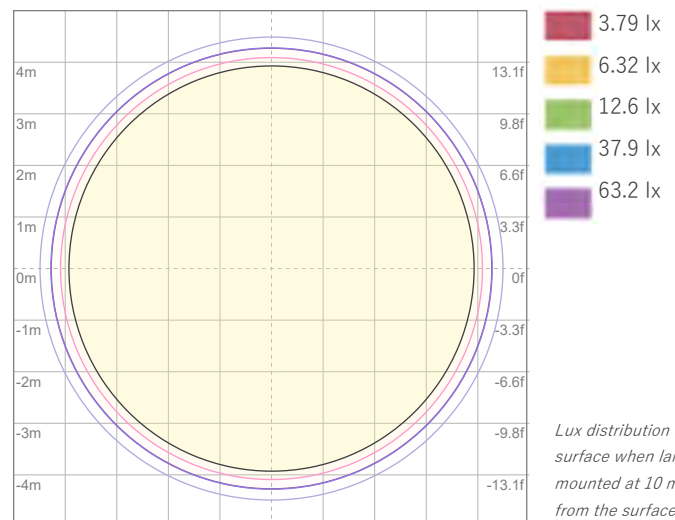


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 12640 cd



ISO LUX Diagram

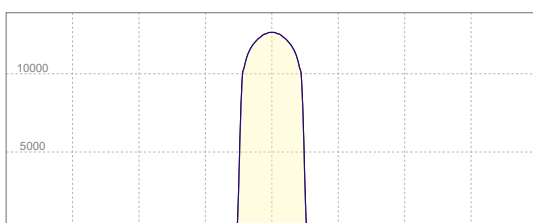
Conditions:

Number of c-planes: 8

LUX at center: 126 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
12640 cd

Calculate Center Beam Intensities

$$\text{lux} = 12640 / \text{distance(m)}^2$$

$$\text{fc} = 12640 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 7988 lm

Peak Intensity: 95660 cd

Beam

Beam Angle (50%): 15.2°

Field Angle (10%): 15.9°

Cutoff Angle (2.5%): 16.4°

Color

Color Temperature: 6239 K

CRI: 69.8

TLCI: 49

TM30 R_F: 70.0

TM30 R_g: 96.0

Power Details

Efficacy: 28 Lumen/Watt

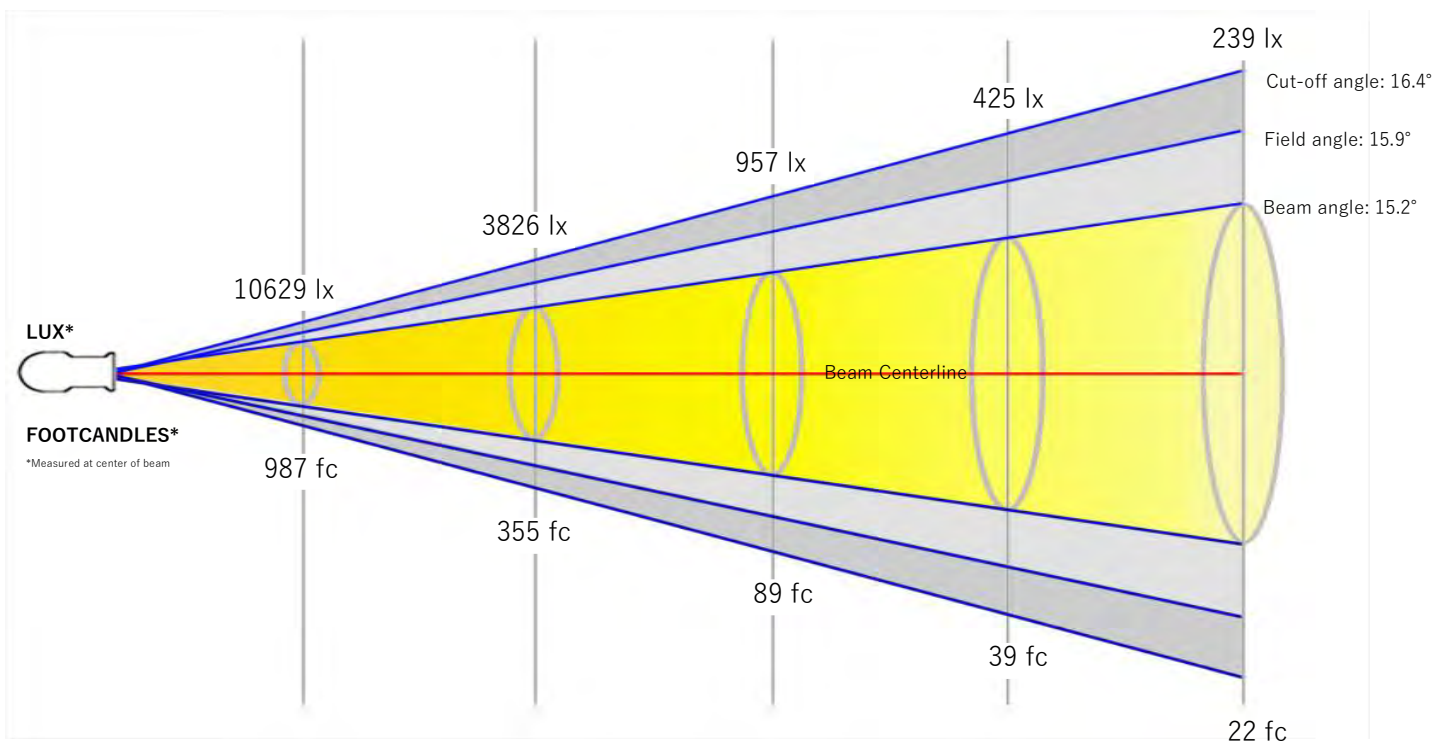
Power: 281 W

Supply Voltage: 116 V

Current: 2.42 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.8 m	1.3 m	2.7 m	4 m	5.3 m

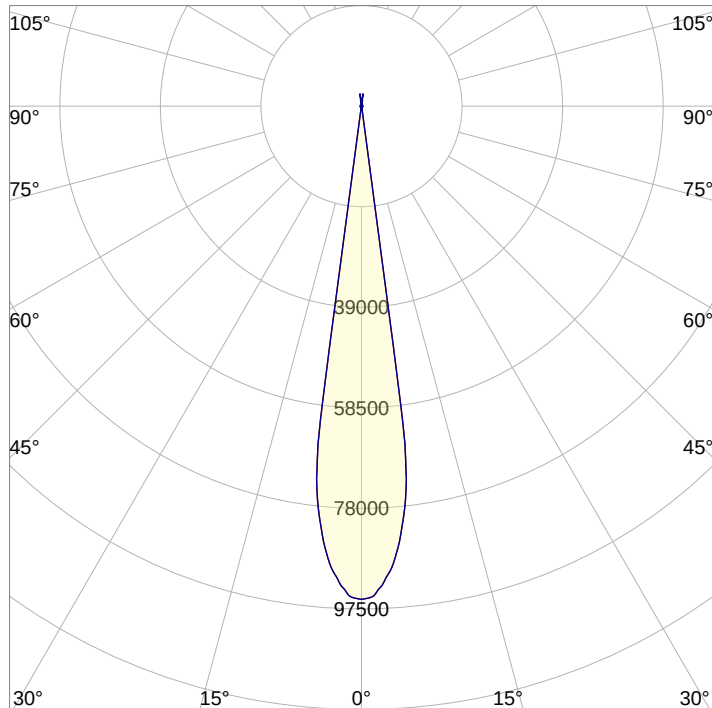


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	2.6 ft	4.4 ft	8.7 ft	13.1 ft	17.5 ft

Beam Intensities from 1-20m

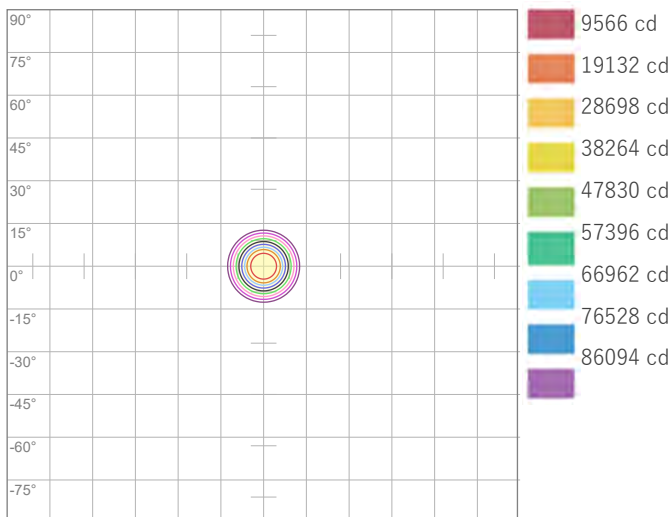
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	95660	23915	10629	5979	3826	2657	1952	1495	1181	957	791	664	566	488	425	374	331	295	265	239
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	8887.1	2221.8	987.5	555.4	355.5	246.9	181.4	138.9	109.7	88.9	73.4	61.7	52.6	45.3	39.5	34.7	30.8	27.4	24.6	22.2

Angular Distribution



Beam Angle - 50%
15.2°
Field Angle - 10%
15.9°
Cutoff Angle - 2.5%
16.4°

ISO Diagrams

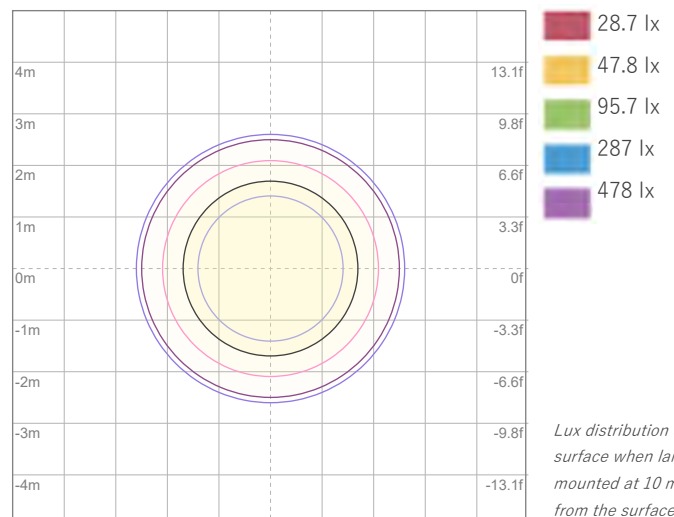


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 95660 cd



ISO LUX Diagram

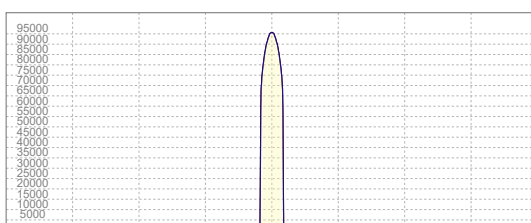
Conditions:

Number of c-planes: 8

LUX at center: 957 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
95660 cd

Calculate Center Beam Intensities

$$\text{lux} = 95660 / \text{distance(m)}^2$$

$$\text{fc} = 95660 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 5038 lm

Peak Intensity: 417817 cd

Beam

Beam Angle (50%): 4.3°

Field Angle (10%): 5.6°

Cutoff Angle (2.5%): 6.1°

Color

Color Temperature: 6156 K

CRI: 70.2

TLCI: 51

TM30 R_F: 70.6

TM30 R_g: 96.2

Power Details

Efficacy: 18 Lumen/Watt

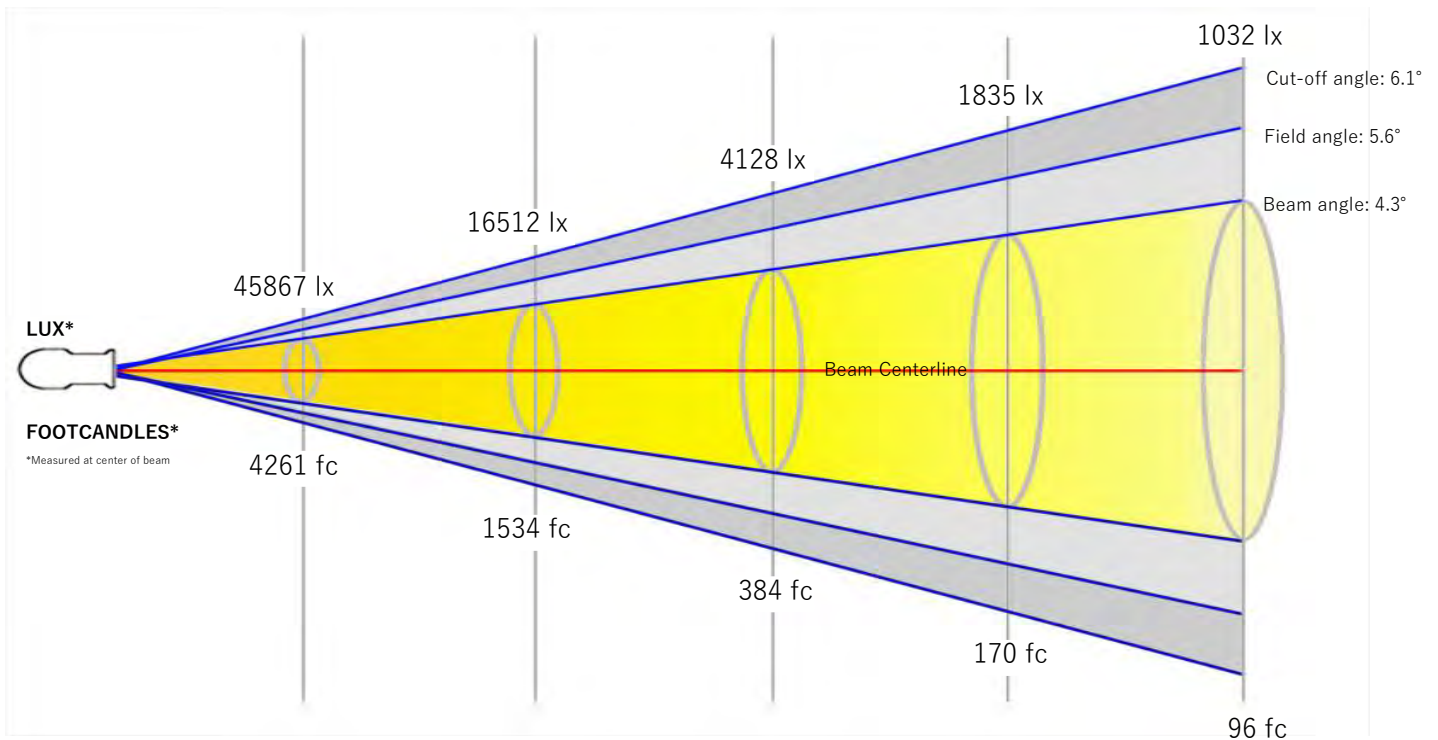
Power: 281 W

Supply Voltage: 116 V

Current: 2.42 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.2 m	0.4 m	0.7 m	1.1 m	1.5 m

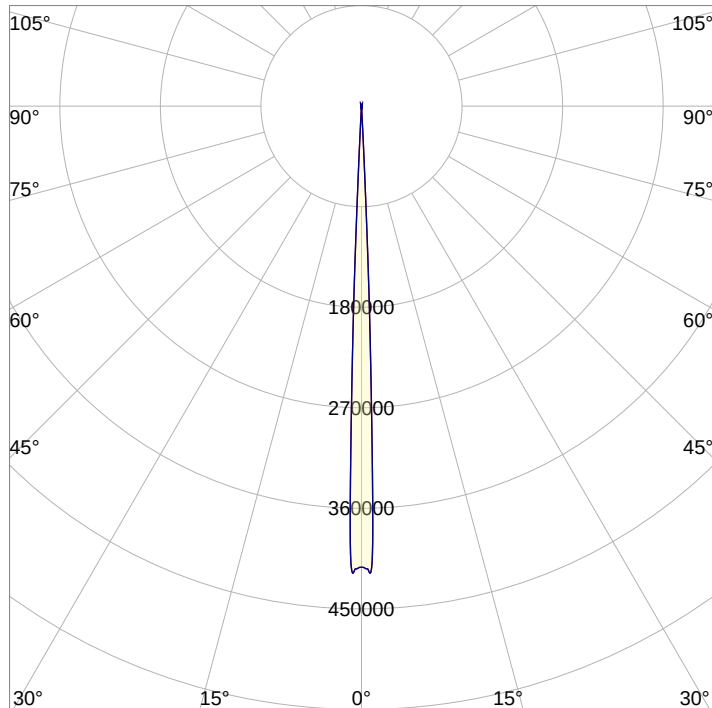


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	0.7 ft	1.2 ft	2.4 ft	3.7 ft	4.9 ft

Beam Intensities from 1-20m

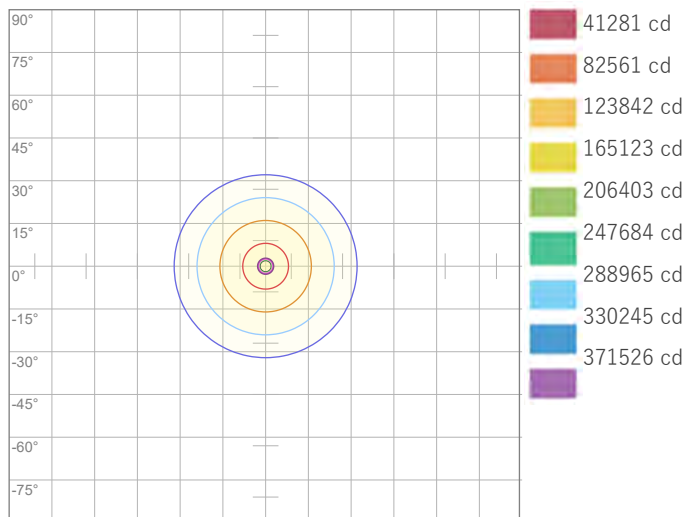
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	412807	103202	45867	25800	16512	11467	8425	6450	5096	4128	3412	2867	2443	2106	1835	1613	1428	1274	1144	1032
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	38351	9587.7	4261.2	2396.9	1534	1065.3	782.7	599.2	473.5	383.5	317	266.3	226.9	195.7	170.4	149.8	132.7	118.4	106.2	95.9

Angular Distribution



Beam Angle - 50%
4.3°
Field Angle - 10%
5.6°
Cutoff Angle - 2.5%
6.1°

ISO Diagrams

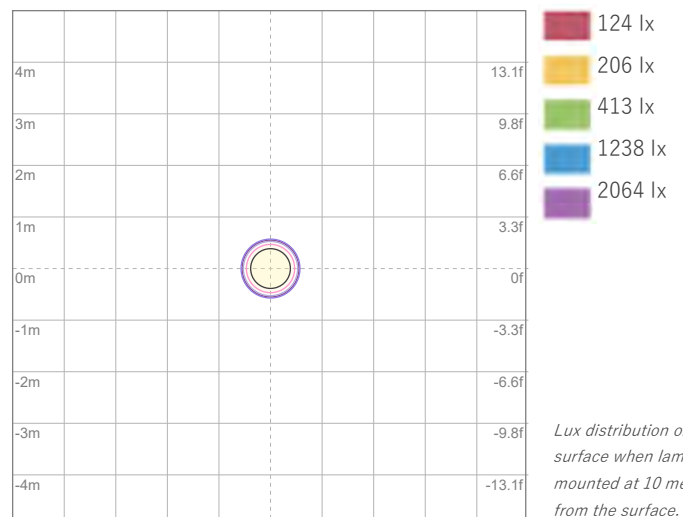


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 412807 cd



ISO LUX Diagram

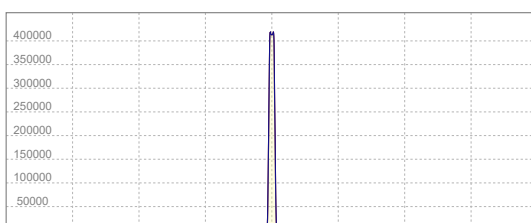
Conditions:

Number of c-planes: 8

LUX at center: 4128 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
417817 cd

Calculate Center Beam Intensities

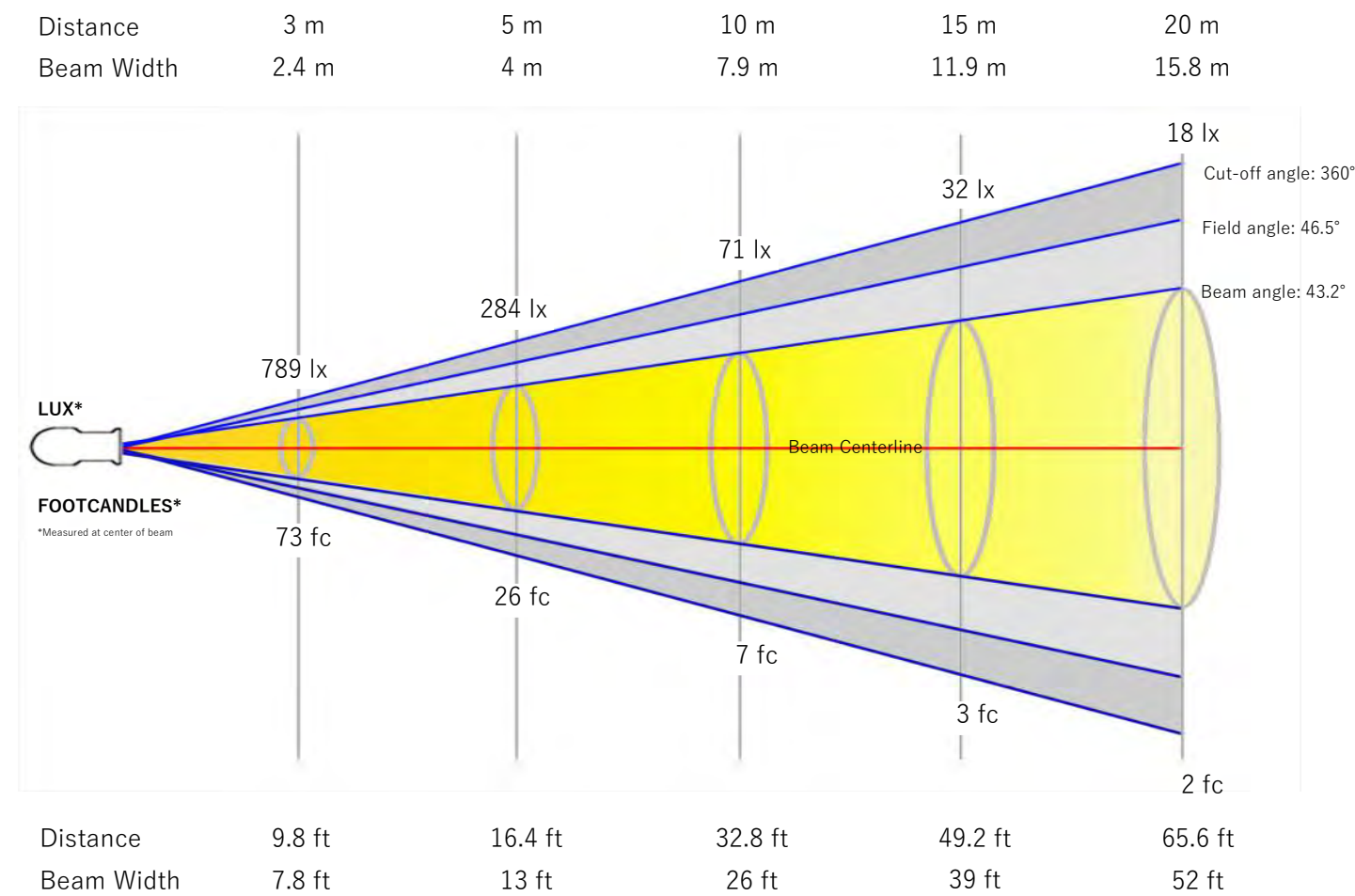
$$\text{lux} = 417817 / \text{distance(m)}^2$$

$$\text{fc} = 417817 / \text{distance(ft)}^2$$

Key Measurements

Output Total Lumen Output: 5866 lm Peak Intensity: 7100 cd	Color Color Temperature: 8473 K CRI: 83.8 TLCI: 81 TM30 R _F : 83.1 TM30 R _g : 100.1	Power Details Efficacy: 28 Lumen/Watt Power: 211 W Supply Voltage: 117 V Current: 1.80 A
Beam Beam Angle (50%): 43.2° Field Angle (10%): 46.5° Cutoff Angle (2.5%): 360°		

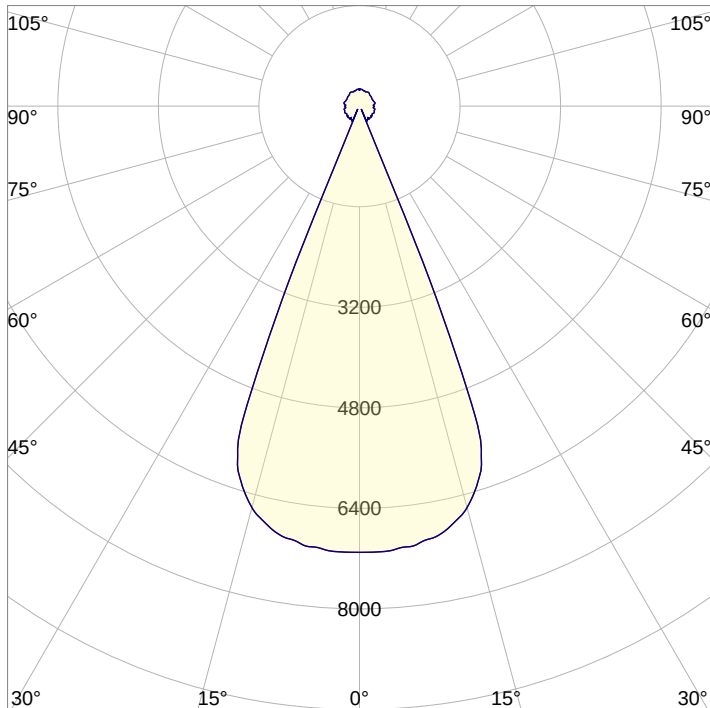
Beam Details



Beam Intensities from 1-20m

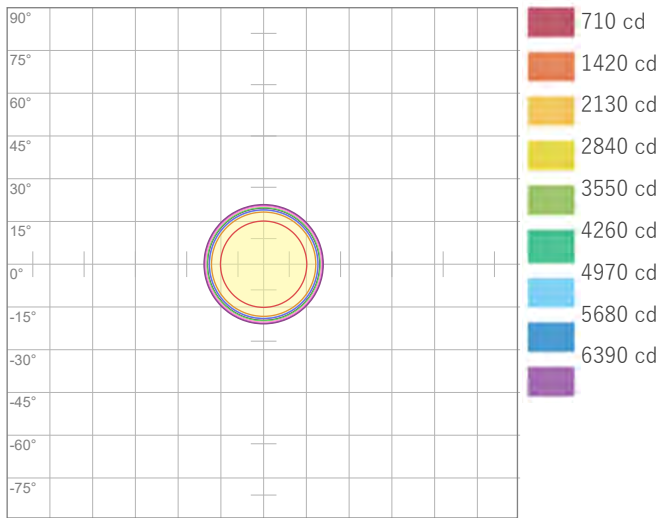
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	7100	1775	789	444	284	197	145	111	88	71	59	49	42	36	32	28	25	22	20	18
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	659.6	164.9	73.3	41.2	26.4	18.3	13.5	10.3	8.1	6.6	5.5	4.6	3.9	3.4	2.9	2.6	2.3	2	1.8	1.6

Angular Distribution



Beam Angle - 50%
43.2°
Field Angle - 10%
46.5°
Cutoff Angle - 2.5%
360°

ISO Diagrams

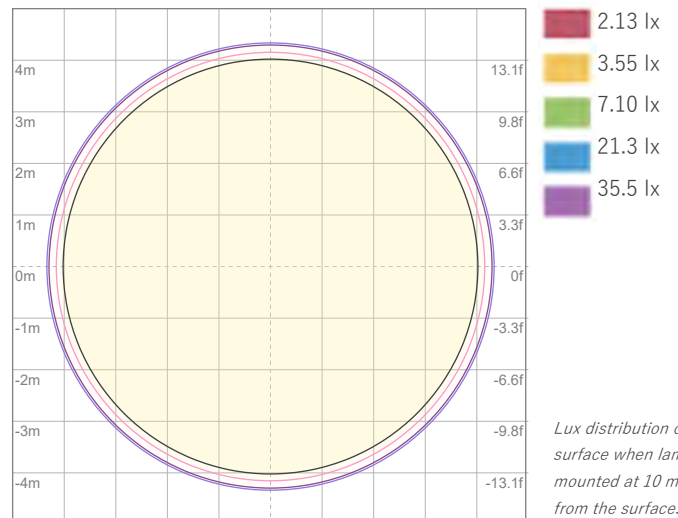


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 7100 cd



ISO LUX Diagram

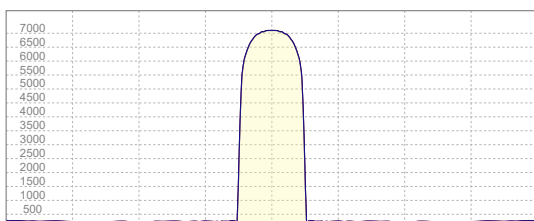
Conditions:

Number of c-planes: 8

LUX at center: 71.0 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
7100 cd

Calculate Center Beam Intensities

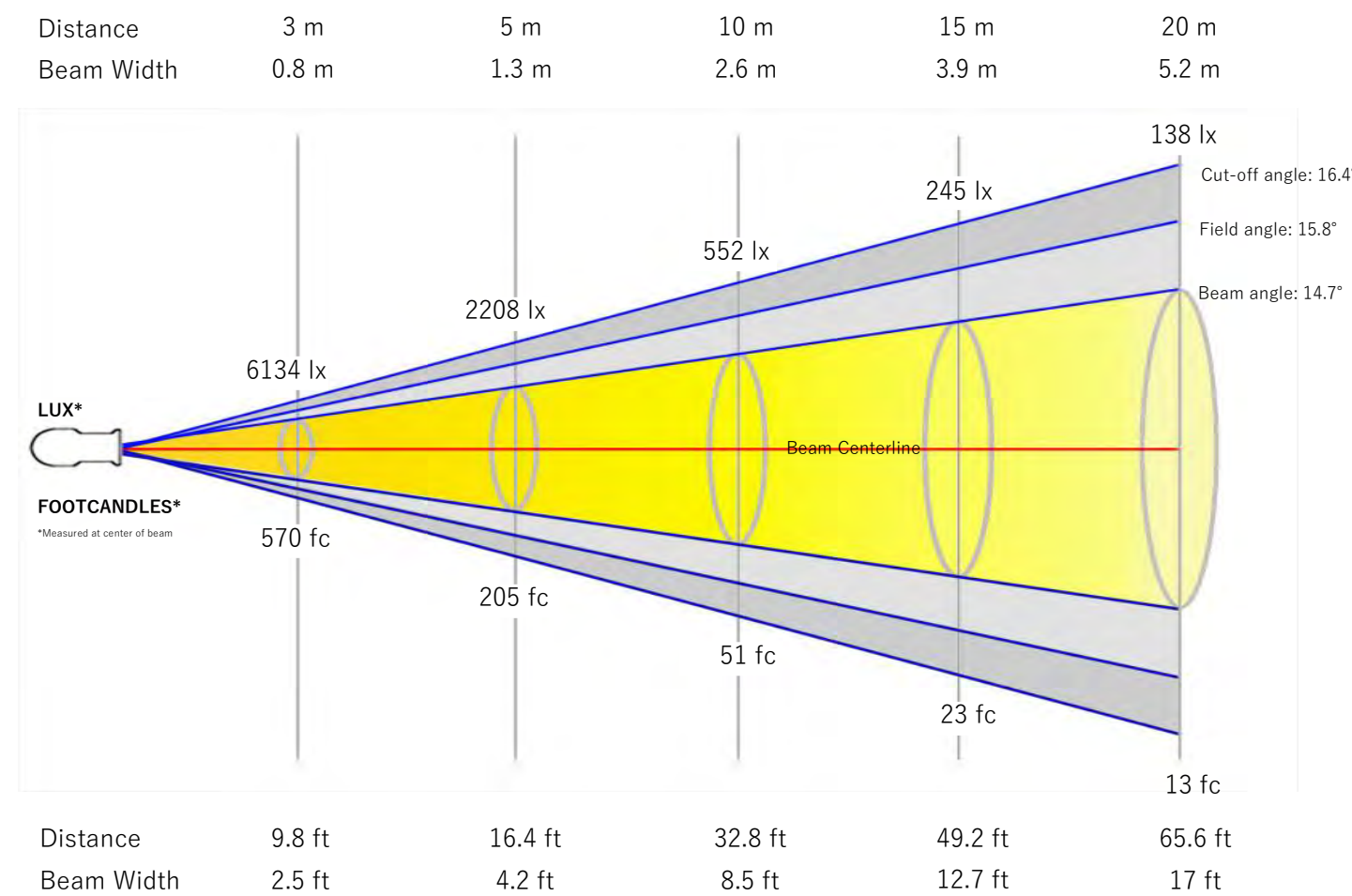
$$\text{lux} = 7100 / \text{distance(m)}^2$$

$$\text{fc} = 7100 / \text{distance(ft)}^2$$

Key Measurements

Output Total Lumen Output: 5784 lm Peak Intensity: 55209 cd	Color Color Temperature: 6157 K CRI: 77.2 TLCI: 68 TM30 R _F : 77.7 TM30 R _g : 98.1	Power Details Efficacy: 27 Lumen/Watt Power: 211 W Supply Voltage: 117 V Current: 1.80 A
Beam Beam Angle (50%): 14.7° Field Angle (10%): 15.8° Cutoff Angle (2.5%): 16.4°		

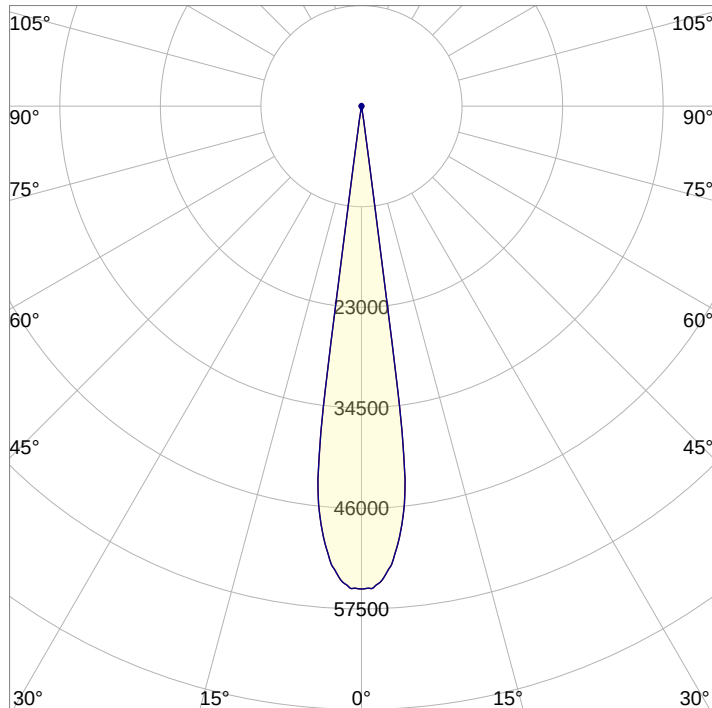
Beam Details



Beam Intensities from 1-20m

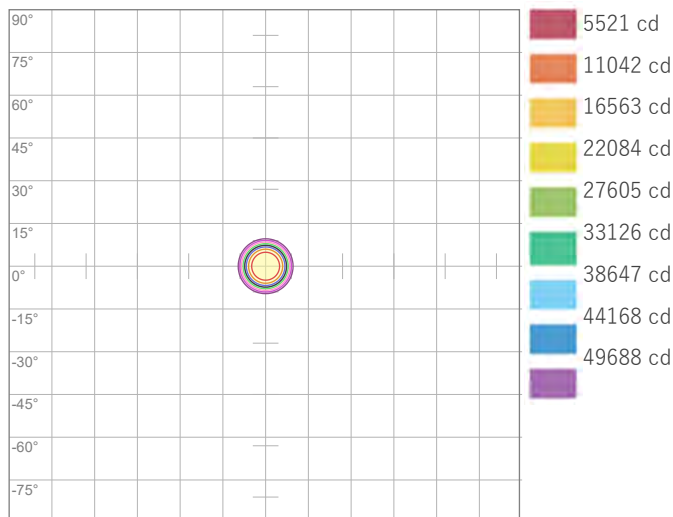
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	55209	13802	6134	3451	2208	1534	1127	863	682	552	456	383	327	282	245	216	191	170	153	138
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	5129.1	1282.3	569.9	320.6	205.2	142.5	104.7	80.1	63.3	51.3	42.4	35.6	30.3	26.2	22.8	20	17.7	15.8	14.2	12.8

Angular Distribution



Beam Angle - 50%
14.7°
Field Angle - 10%
15.8°
Cutoff Angle - 2.5%
16.4°

ISO Diagrams

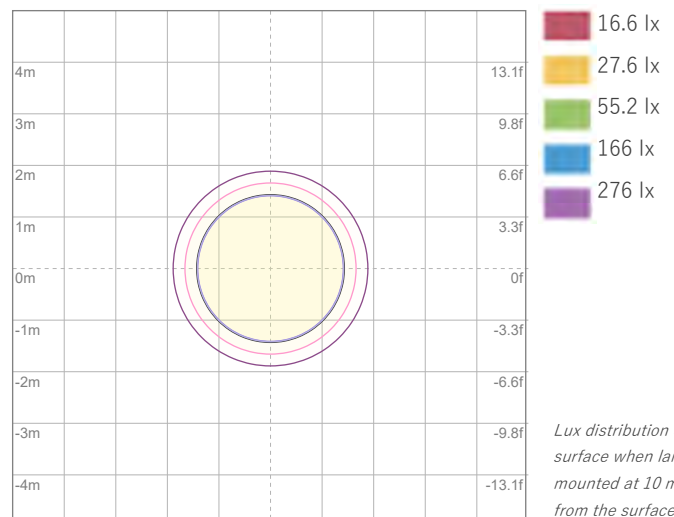


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 55209 cd



ISO LUX Diagram

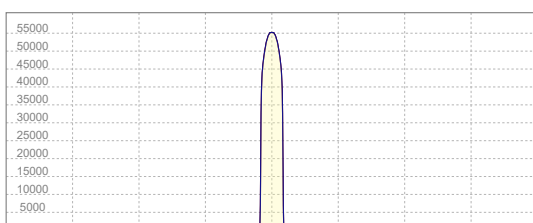
Conditions:

Number of c-planes: 8

LUX at center: 552 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
55209 cd

Calculate Center Beam Intensities

$$\text{lux} = 55209 / \text{distance(m)}^2$$

$$\text{fc} = 55209 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 4777 lm

Peak Intensity: 257471 cd

Beam

Beam Angle (50%): 4.2°

Field Angle (10%): 5.5°

Cutoff Angle (2.5%): 6°

Color

Color Temperature: 6076 K

CRI: 78.6

TLCI: 72

TM30 R_F: 79.1

TM30 R_g: 98.2

Power Details

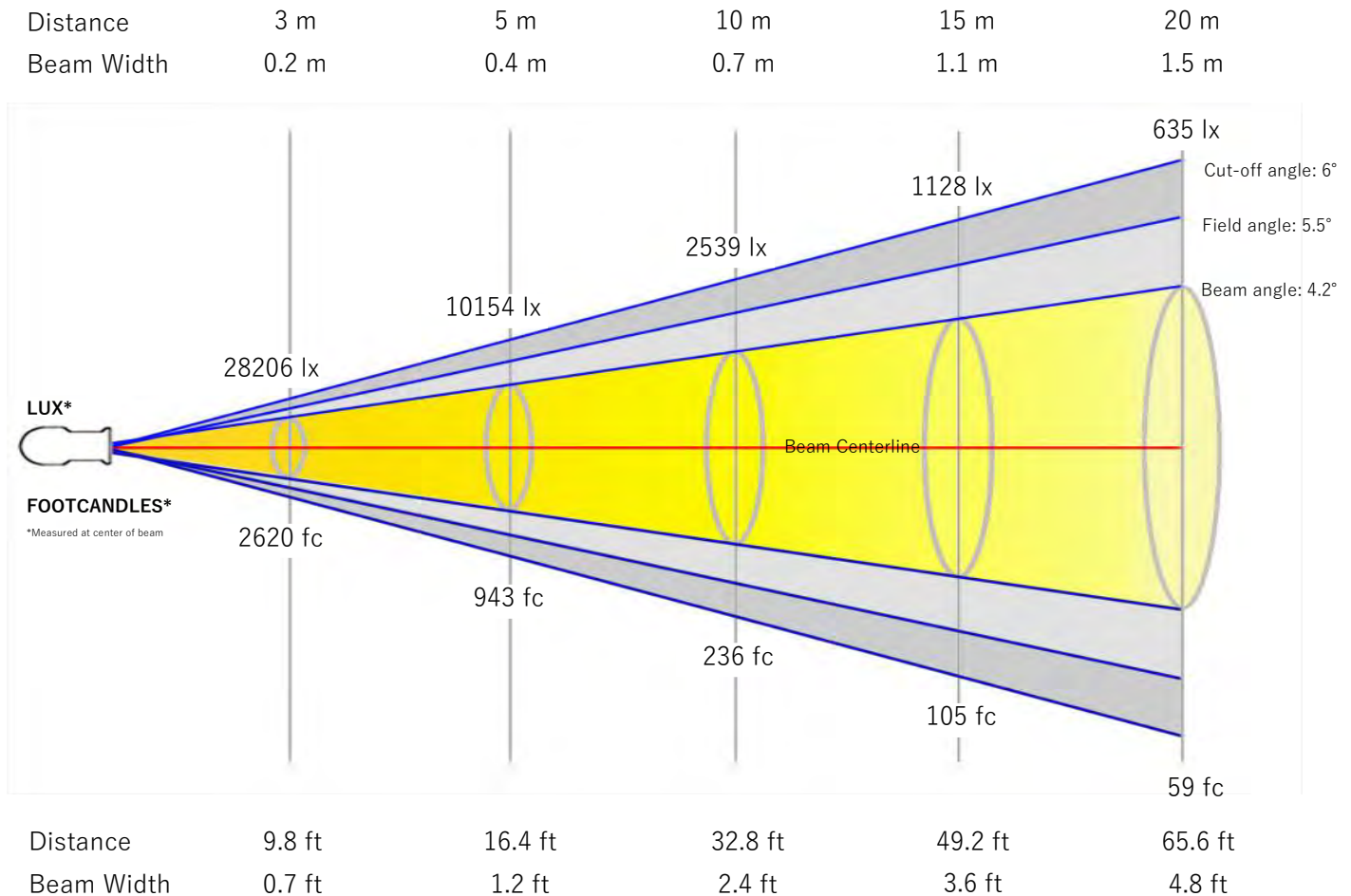
Efficacy: 23 Lumen/Watt

Power: 210 W

Supply Voltage: 117 V

Current: 1.79 A

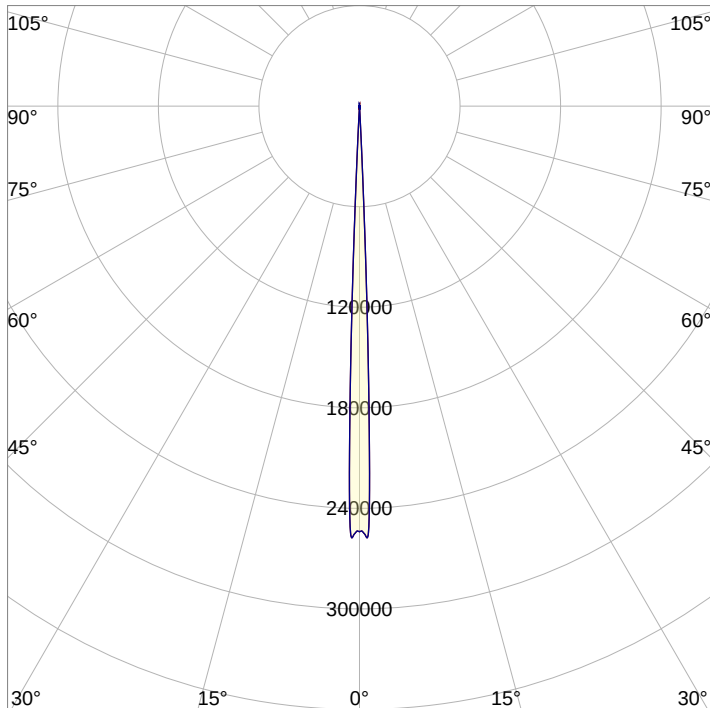
Beam Details



Beam Intensities from 1-20m

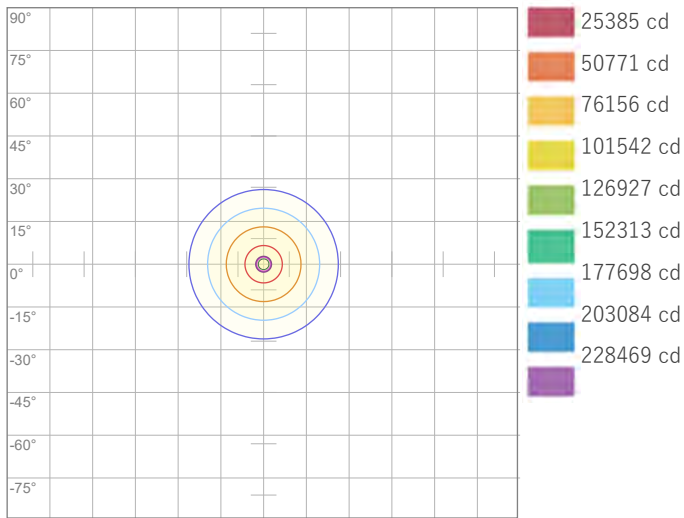
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	253855	63464	28206	15866	10154	7052	5181	3966	3134	2539	2098	1763	1502	1295	1128	992	878	784	703	635
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	23583.9	5896	2620.4	1474	943.4	655.1	481.3	368.5	291.2	235.8	194.9	163.8	139.5	120.3	104.8	92.1	81.6	72.8	65.3	59

Angular Distribution



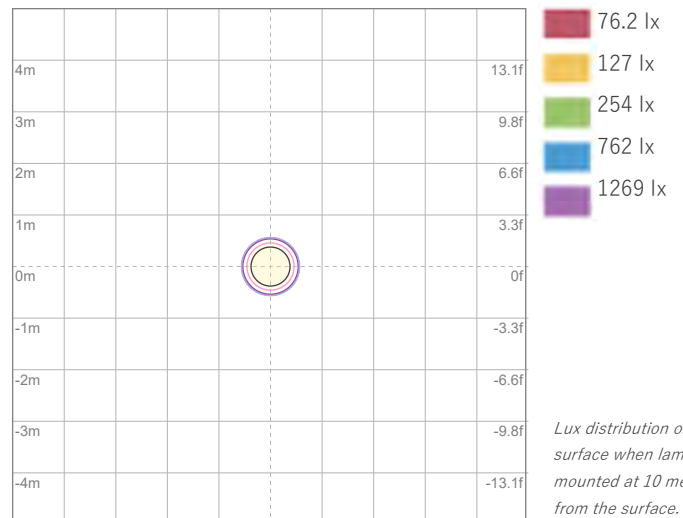
Beam Angle - 50%
4.2°
Field Angle - 10%
5.5°
Cutoff Angle - 2.5%
6°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 8
Candela at center: 253855 cd

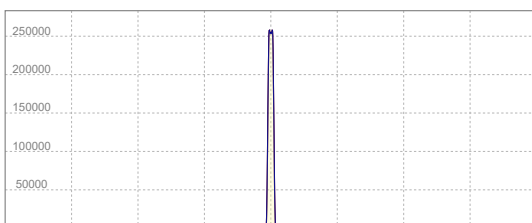


ISO LUX Diagram

Conditions:
Number of c-planes: 8
LUX at center: 2539 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
257471 cd

Calculate Center Beam Intensities

$$\text{lux} = 257471 / \text{distance(m)}^2$$

$$\text{fc} = 257471 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 4249 lm

Peak Intensity: 3255 cd

Beam

Beam Angle (50%): 43.5°

Field Angle (10%): 47.8°

Cutoff Angle (2.5%): 360°

Color

Color Temperature: 17063 K

CRI: 91.3

TLCI: 95

TM30 R_F: 90.6

TM30 R_g: 103.0

Power Details

Efficacy: 28 Lumen/Watt

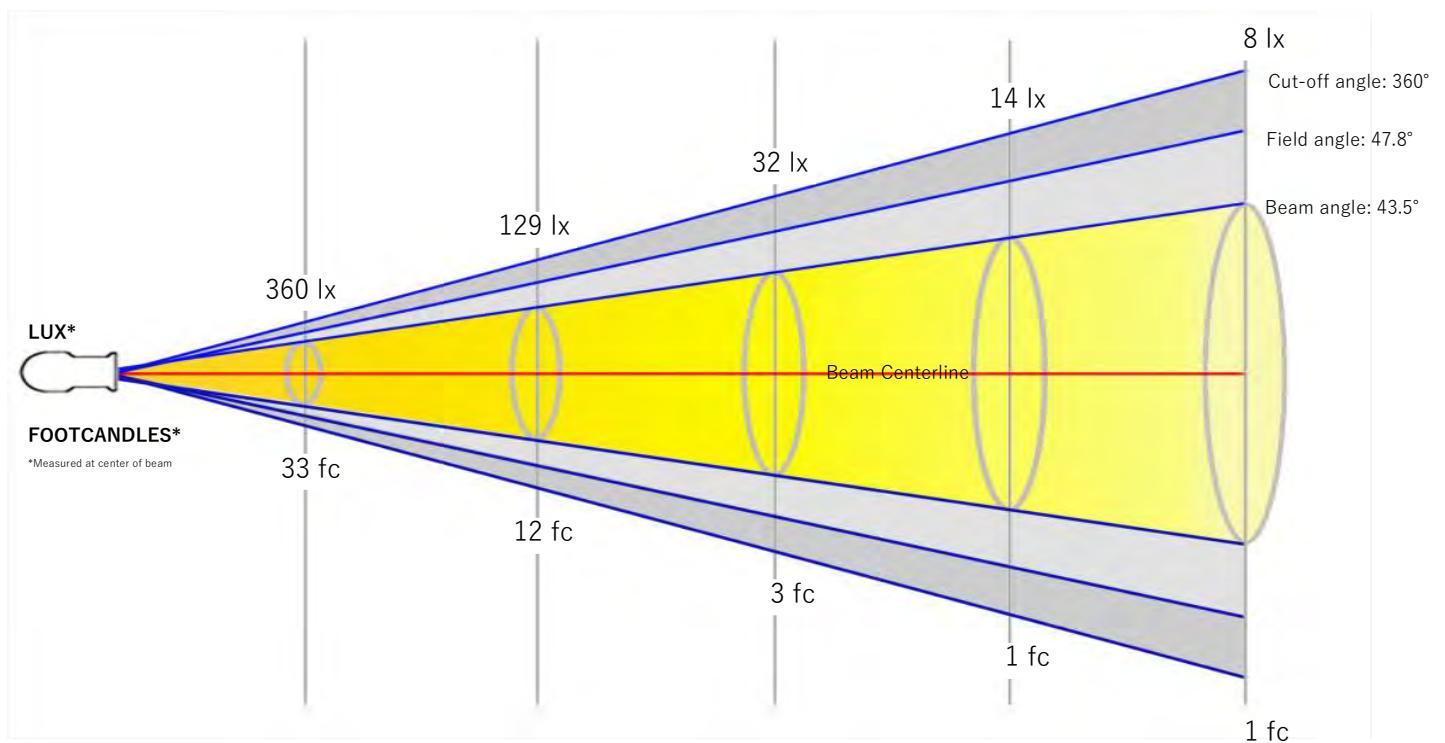
Power: 151.3 W

Supply Voltage: 117 V

Current: 1.29 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.4 m	4 m	8 m	12 m	15.9 m

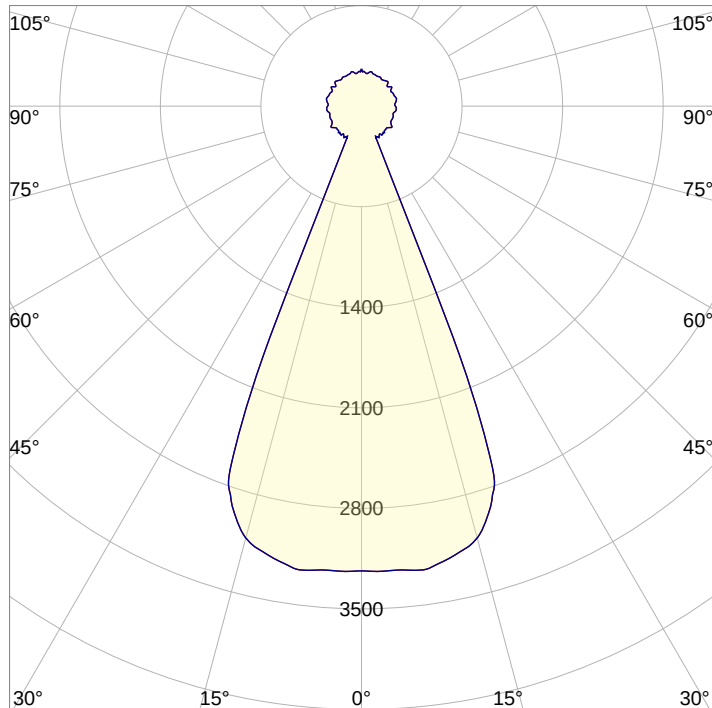


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7.8 ft	13.1 ft	26.1 ft	39.2 ft	52.3 ft

Beam Intensities from 1-20m

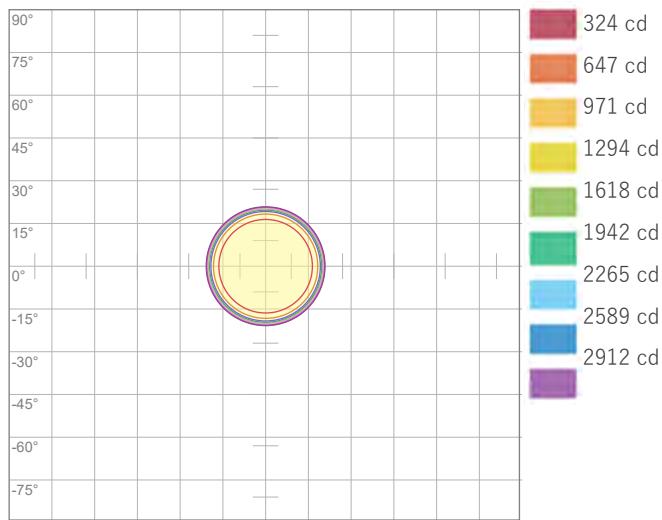
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	3236	809	360	202	129	90	66	51	40	32	27	22	19	17	14	13	11	10	9	8
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	300.6	75.2	33.4	18.8	12	8.4	6.1	4.7	3.7	3	2.5	2.1	1.8	1.5	1.3	1.2	1	0.9	0.8	0.8

Angular Distribution



Beam Angle - 50%
43.5°
Field Angle - 10%
47.8°
Cutoff Angle - 2.5%
360°

ISO Diagrams

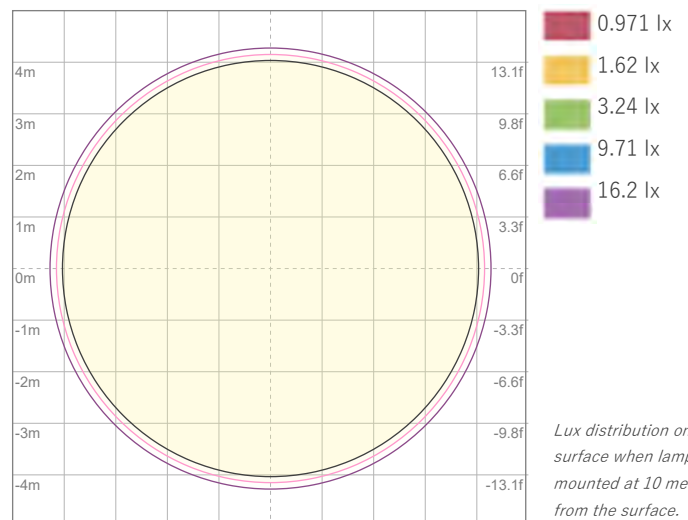


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 3236 cd



ISO LUX Diagram

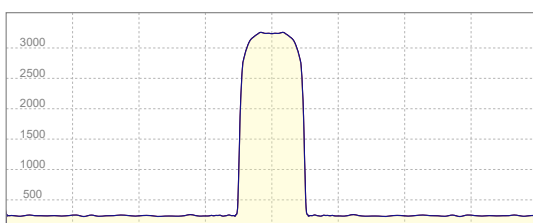
Conditions:

Number of c-planes: 8

LUX at center: 32.4 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
3255 cd

Calculate Center Beam Intensities

$$\text{lux} = 3255 / \text{distance(m)}^2$$

$$\text{fc} = 3255 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 4306 lm

Peak Intensity: 24254 cd

Beam

Beam Angle (50%): 14.8°

Field Angle (10%): 15.6°

Cutoff Angle (2.5%): 16.5°

Color

Color Temperature: 6065 K

CRI: 88.6

TLCI: 93

TM30 R_F: 88.3

TM30 R_g: 99.3

Power Details

Efficacy: 28 Lumen/Watt

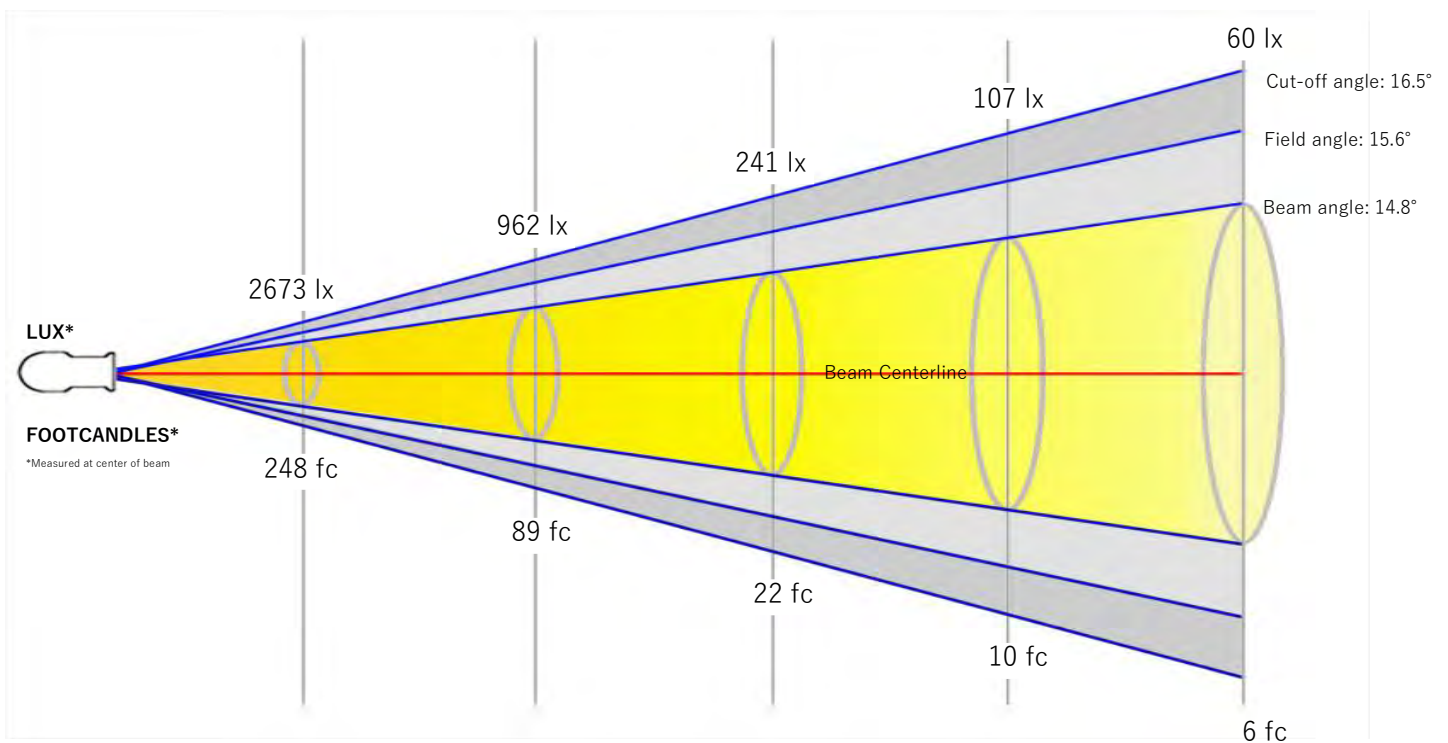
Power: 152 W

Supply Voltage: 117 V

Current: 1.30 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.8 m	1.3 m	2.6 m	3.9 m	5.2 m

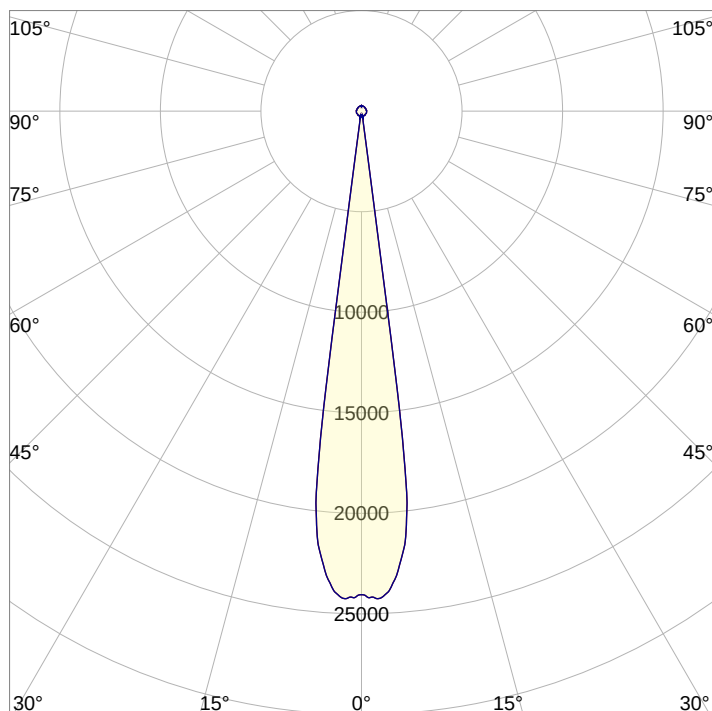


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	2.5 ft	4.3 ft	8.5 ft	12.8 ft	17 ft

Beam Intensities from 1-20m

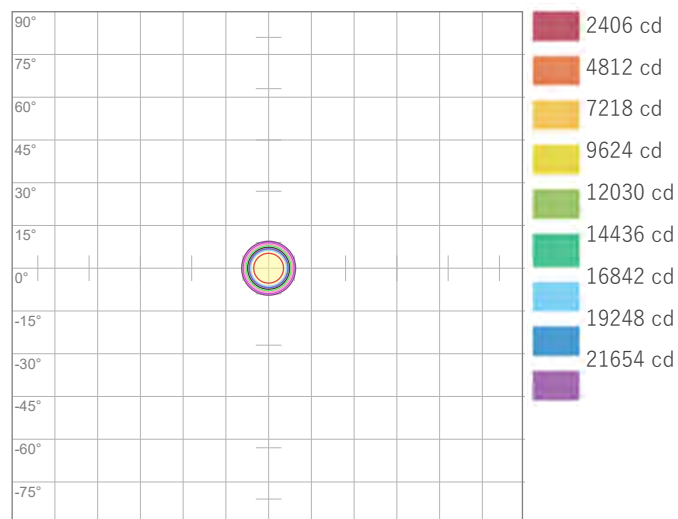
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	24060	6015	2673	1504	962	668	491	376	297	241	199	167	142	123	107	94	83	74	67	60
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	2235.3	558.8	248.4	139.7	89.4	62.1	45.6	34.9	27.6	22.4	18.5	15.5	13.2	11.4	9.9	8.7	7.7	6.9	6.2	5.6

Angular Distribution



Beam Angle - 50%
14.8°
Field Angle - 10%
15.6°
Cutoff Angle - 2.5%
16.5°

ISO Diagrams

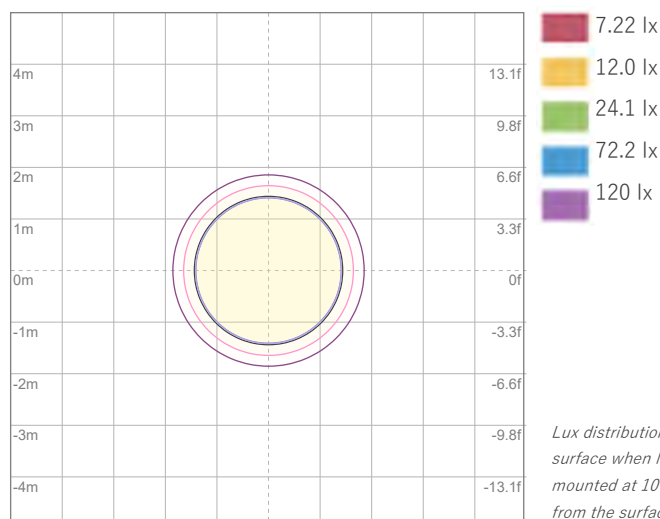


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 24060 cd



ISO LUX Diagram

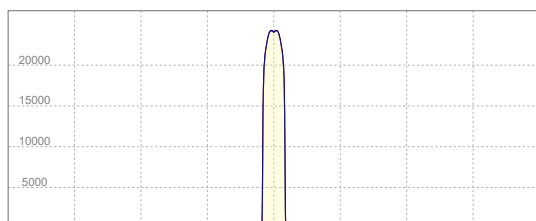
Conditions:

Number of c-planes: 8

LUX at center: 241 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
24254 cd

Calculate Center Beam Intensities

$$\text{lux} = 24254 / \text{distance(m)}^2$$

$$\text{fc} = 24254 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 3642 lm

Peak Intensity: 131720 cd

Beam

Beam Angle (50%): 4.2°

Field Angle (10%): 5.6°

Cutoff Angle (2.5%): 6°

Color

Color Temperature: 5984 K

CRI: 88.5

TLCI: 93

TM30 R_F: 88.2

TM30 R_g: 99.2

Power Details

Efficacy: 24 Lumen/Watt

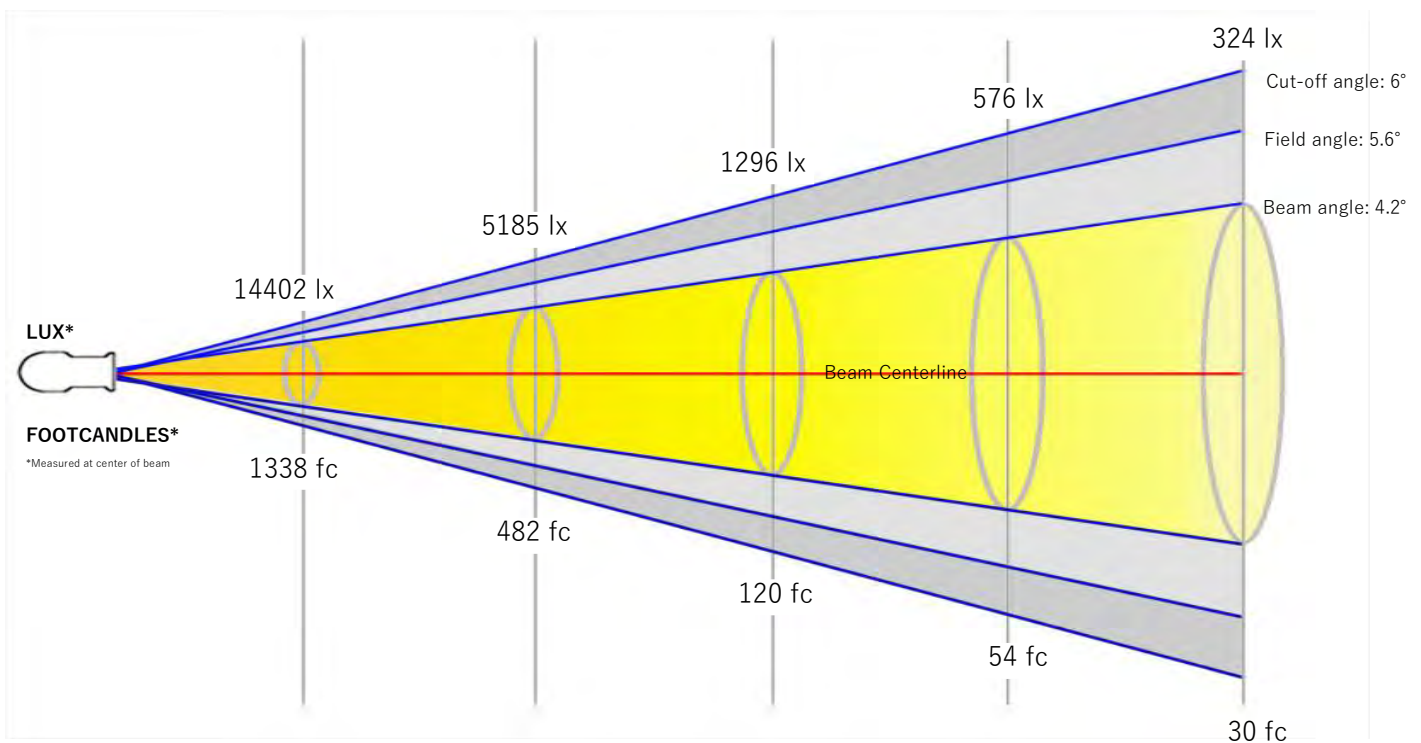
Power: 151 W

Supply Voltage: 117 V

Current: 1.29 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.2 m	0.4 m	0.7 m	1.1 m	1.5 m

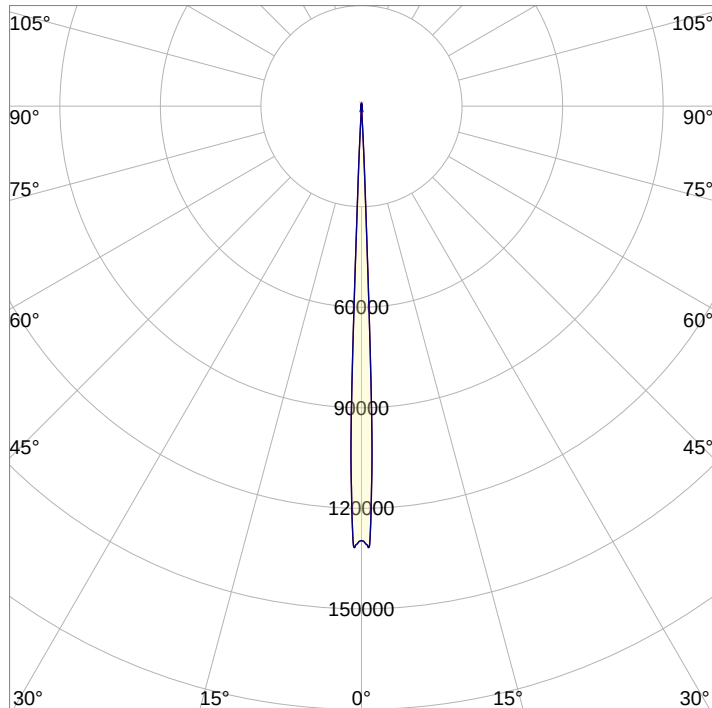


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	0.7 ft	1.2 ft	2.4 ft	3.6 ft	4.8 ft

Beam Intensities from 1-20m

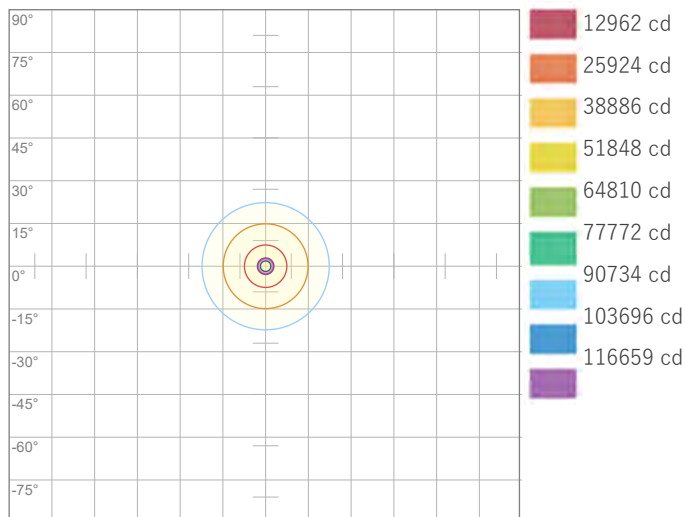
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	129621	32405	14402	8101	5185	3601	2645	2025	1600	1296	1071	900	767	661	576	506	449	400	359	324
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	12042.1	3010.5	1338	752.6	481.7	334.5	245.8	188.2	148.7	120.4	99.5	83.6	71.3	61.4	53.5	47	41.7	37.2	33.4	30.1

Angular Distribution



Beam Angle - 50%
4.2°
Field Angle - 10%
5.6°
Cutoff Angle - 2.5%
6°

ISO Diagrams

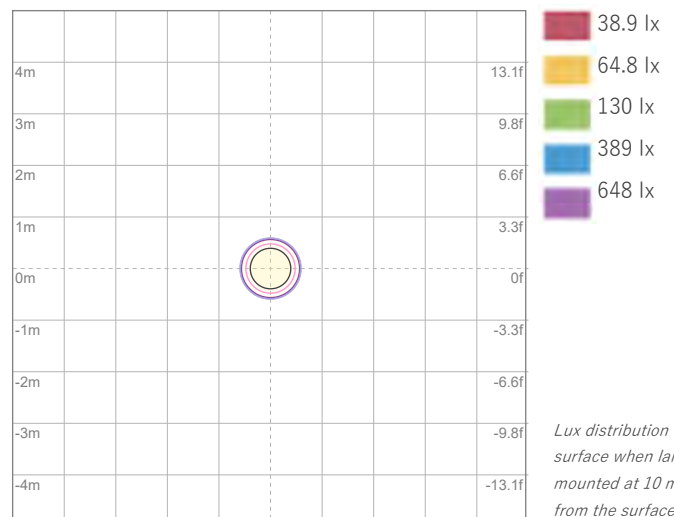


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 129621 cd



ISO LUX Diagram

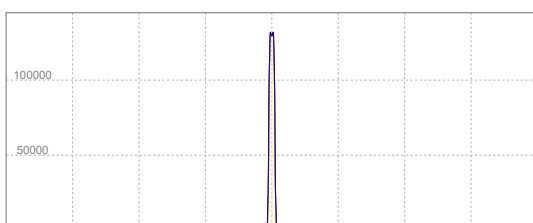
Conditions:

Number of c-planes: 8

LUX at center: 1296 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
131720 cd

Calculate Center Beam Intensities

$$\text{lux} = 131720 / \text{distance(m)}^2$$

$$\text{fc} = 131720 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 5070 lm

Peak Intensity: 5207 cd

Beam

Beam Angle (50%): 43.1°

Field Angle (10%): 47.1°

Cutoff Angle (2.5%): 360°

Color

Color Temperature: 12975 K

CRI: 84.4

TLCI: 81

TM30 R_F: 83.7

TM30 R_g: 101.2

Power Details

Efficacy: 33 Lumen/Watt

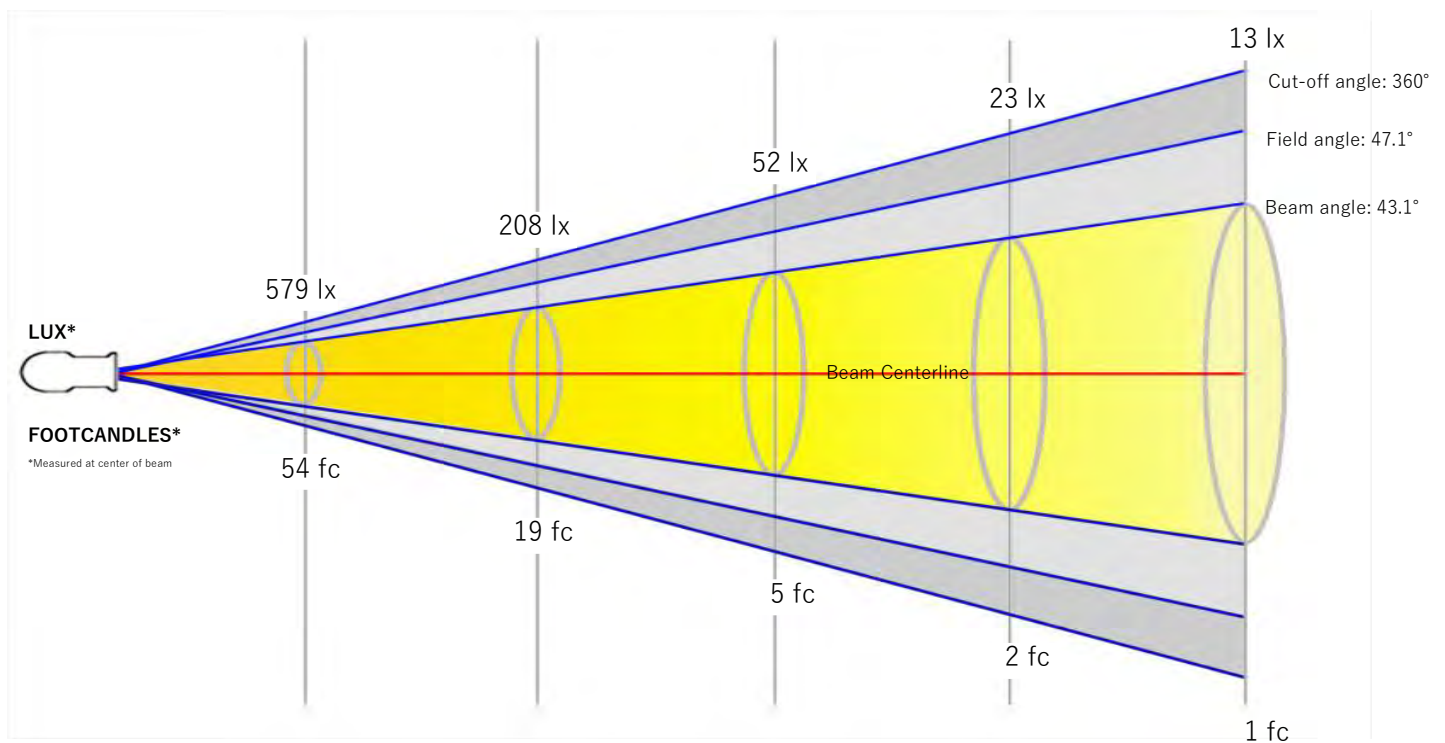
Power: 156 W

Supply Voltage: 117 V

Current: 1.33 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.4 m	4 m	7.9 m	11.9 m	15.8 m

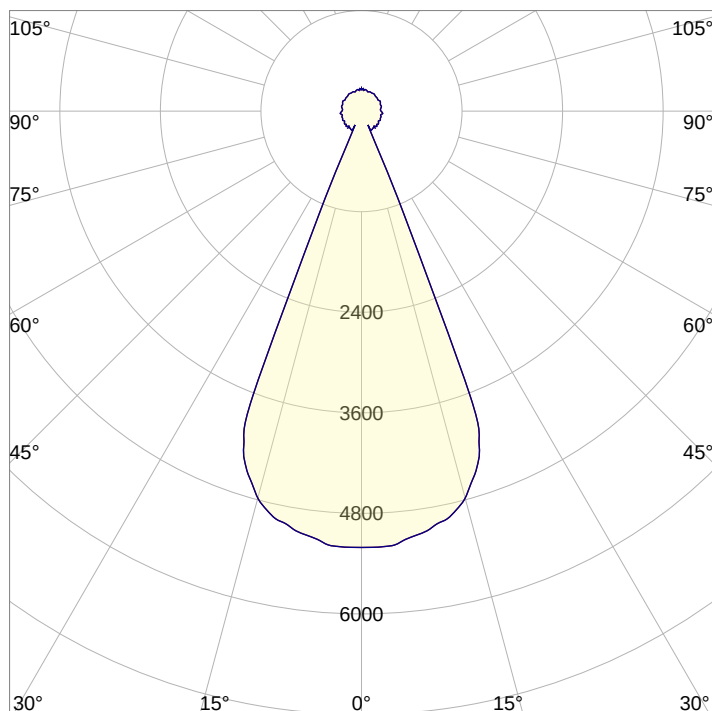


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7.7 ft	13 ft	25.9 ft	38.9 ft	51.8 ft

Beam Intensities from 1-20m

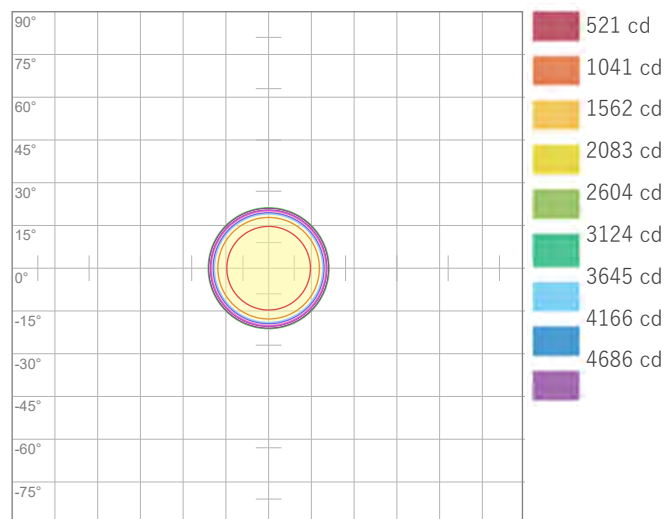
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	5207	1302	579	325	208	145	106	81	64	52	43	36	31	27	23	20	18	16	14	13
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	483.8	120.9	53.8	30.2	19.4	13.4	9.9	7.6	6	4.8	4	3.4	2.9	2.5	2.2	1.9	1.7	1.5	1.3	1.2

Angular Distribution



Beam Angle - 50%
43.1°
Field Angle - 10%
47.1°
Cutoff Angle - 2.5%
360°

ISO Diagrams

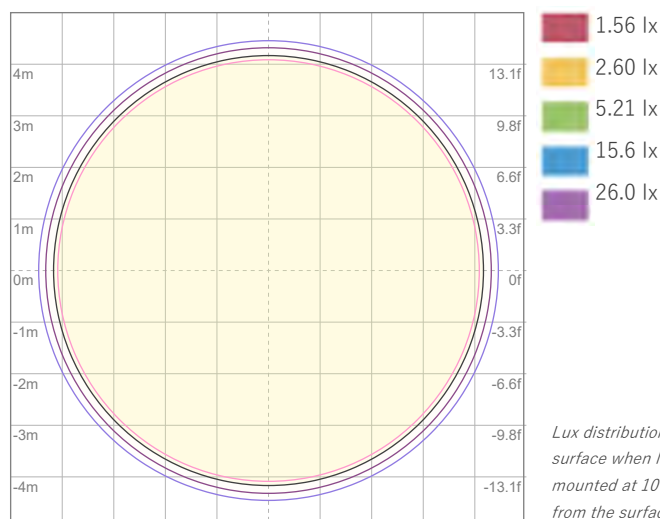


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 5207 cd



ISO LUX Diagram

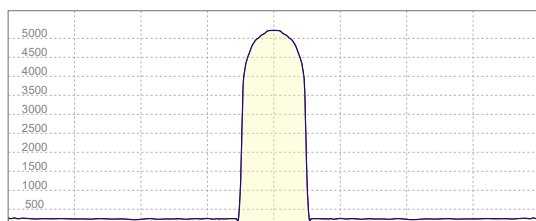
Conditions:

Number of c-planes: 8

LUX at center: 52.1 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
5207 cd

Calculate Center Beam Intensities

$$\text{lux} = 5207 / \text{distance(m)}^2$$

$$\text{fc} = 5207 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 4963 lm

Peak Intensity: 40089 cd

Beam

Beam Angle (50%): 14.7°

Field Angle (10%): 15.6°

Cutoff Angle (2.5%): 16.3°

Color

Color Temperature: 6229 K

CRI: 69.2

TLCI: 49

TM30 R_F: 69.4

TM30 R_g: 96.1

Power Details

Efficacy: 32 Lumen/Watt

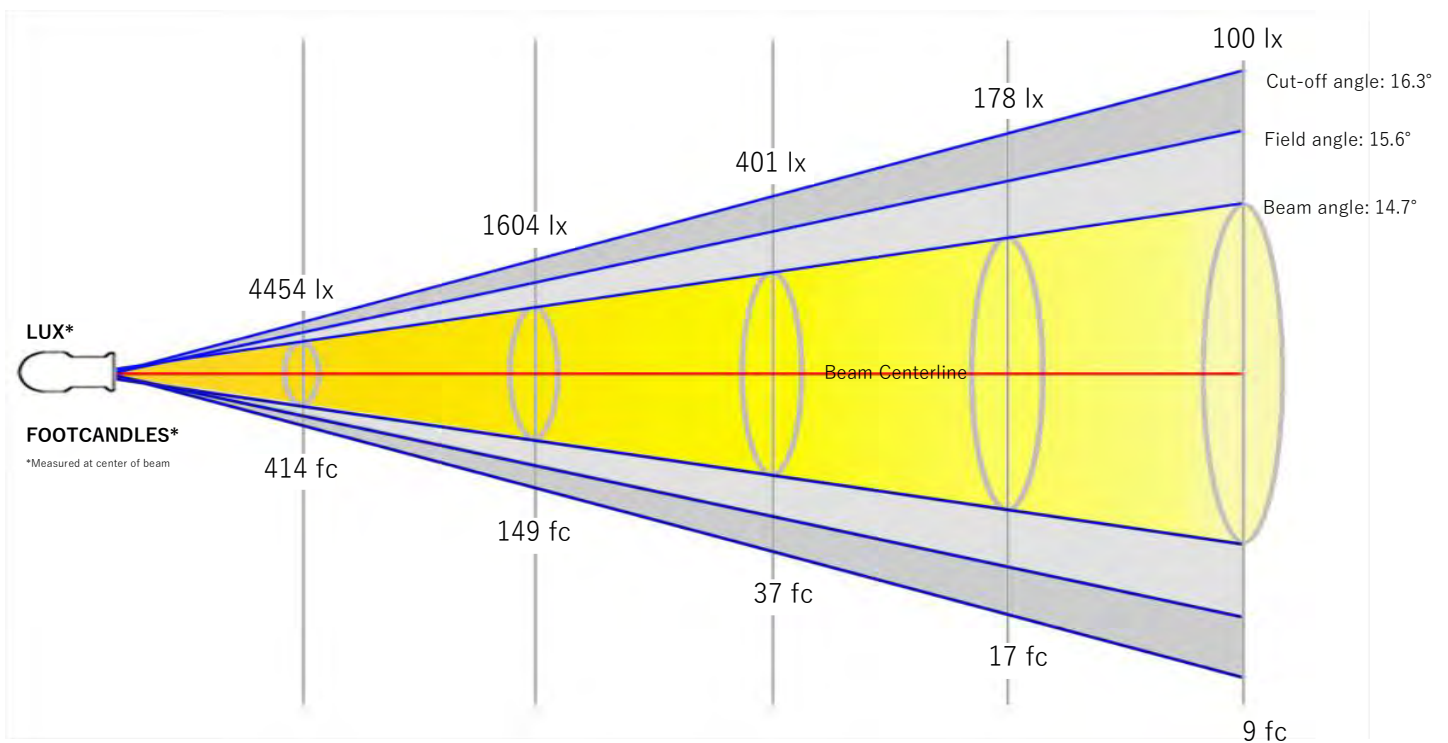
Power: 156 W

Supply Voltage: 117 V

Current: 1.33 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.8 m	1.3 m	2.6 m	3.9 m	5.2 m

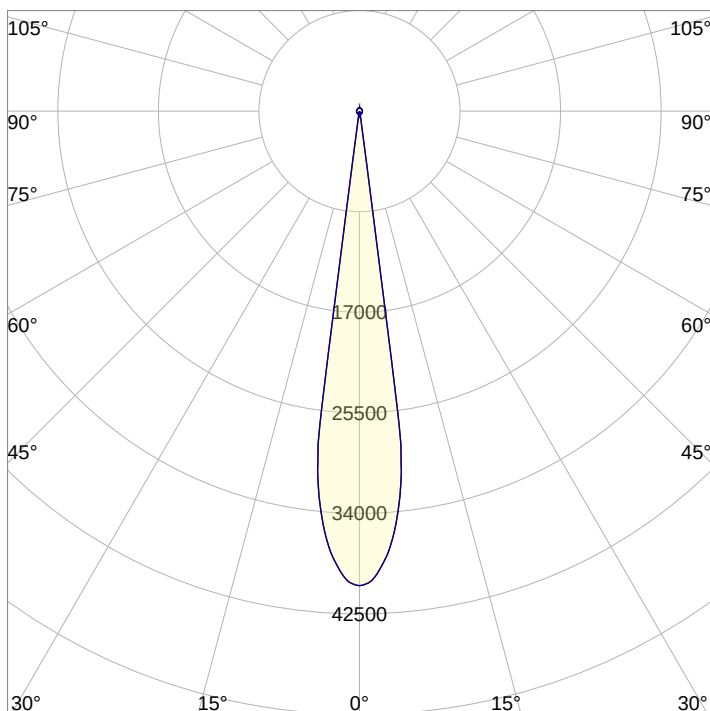


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	2.5 ft	4.2 ft	8.5 ft	12.7 ft	17 ft

Beam Intensities from 1-20m

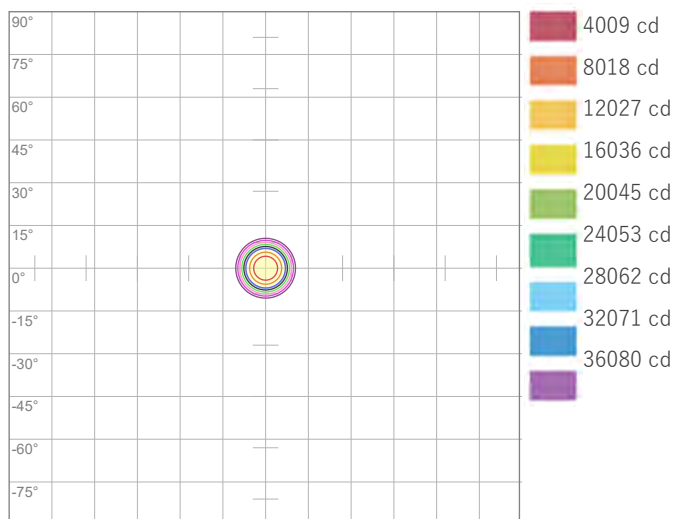
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	40089	10022	4454	2506	1604	1114	818	626	495	401	331	278	237	205	178	157	139	124	111	100
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	3724.4	931.1	413.8	232.8	149	103.5	76	58.2	46	37.2	30.8	25.9	22	19	16.6	14.5	12.9	11.5	10.3	9.3

Angular Distribution



Beam Angle - 50%
14.7°
Field Angle - 10%
15.6°
Cutoff Angle - 2.5%
16.3°

ISO Diagrams

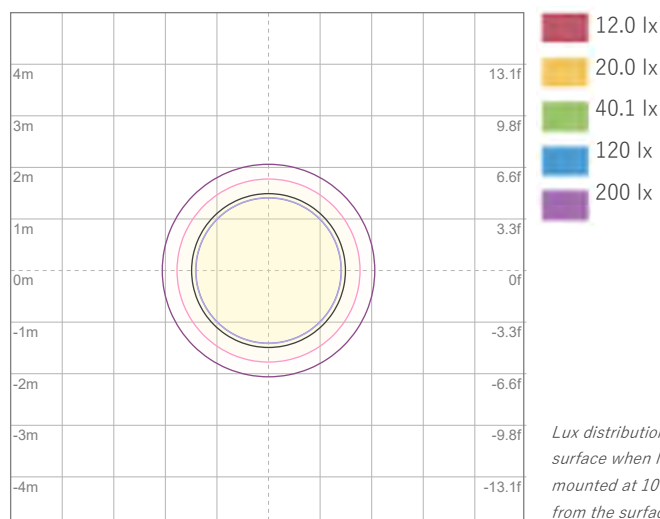


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 40089 cd



ISO LUX Diagram

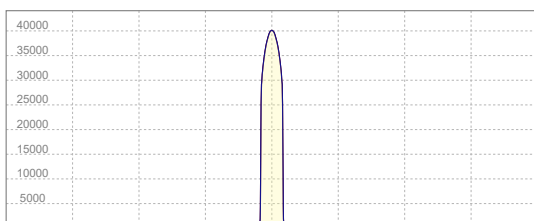
Conditions:

Number of c-planes: 8

LUX at center: 401 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
40089 cd

Calculate Center Beam Intensities

$$\text{lux} = 40089 / \text{distance(m)}^2$$

$$\text{fc} = 40089 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 4286 lm

Peak Intensity: 167540 cd

Beam

Beam Angle (50%): 4.1°

Field Angle (10%): 5.5°

Cutoff Angle (2.5%): 6°

Color

Color Temperature: 6138 K

CRI: 69.7

TLCI: 50

TM30 R_F: 70.1

TM30 R_g: 96.3

Power Details

Efficacy: 28 Lumen/Watt

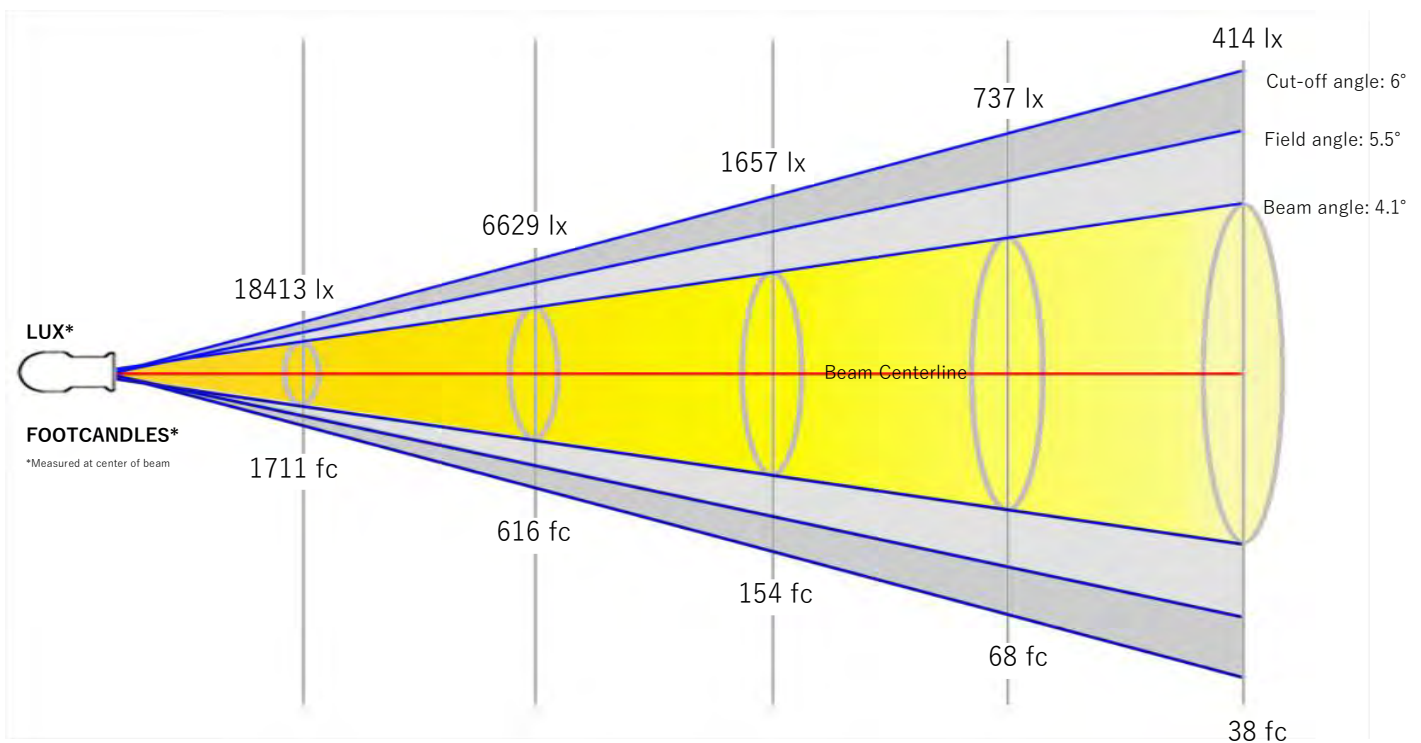
Power: 155 W

Supply Voltage: 117 V

Current: 1.32 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.2 m	0.4 m	0.7 m	1.1 m	1.4 m

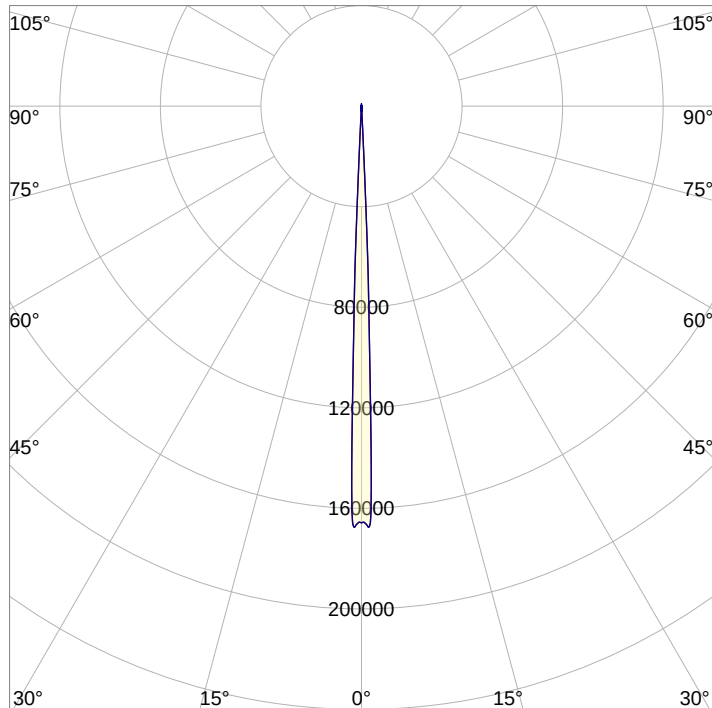


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	0.7 ft	1.2 ft	2.3 ft	3.5 ft	4.7 ft

Beam Intensities from 1-20m

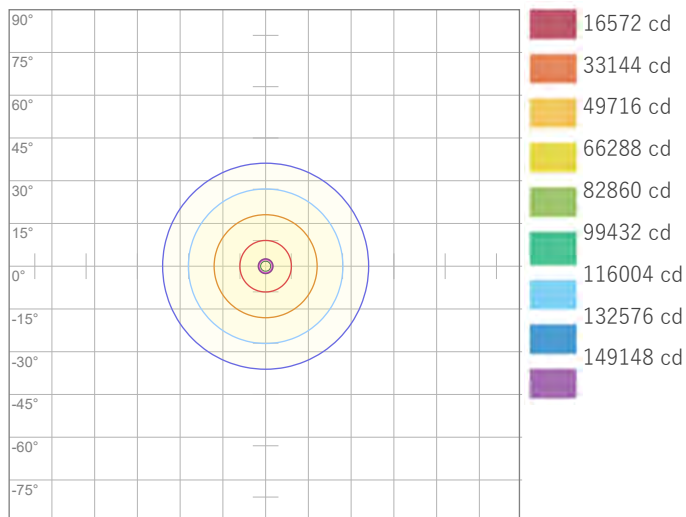
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	165720	41430	18413	10357	6629	4603	3382	2589	2046	1657	1370	1151	981	846	737	647	573	511	459	414
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	15395.9	3849	1710.7	962.2	615.8	427.7	314.2	240.6	190.1	154	127.2	106.9	91.1	78.6	68.4	60.1	53.3	47.5	42.6	38.5

Angular Distribution



Beam Angle - 50%
4.1°
Field Angle - 10%
5.5°
Cutoff Angle - 2.5%
6°

ISO Diagrams

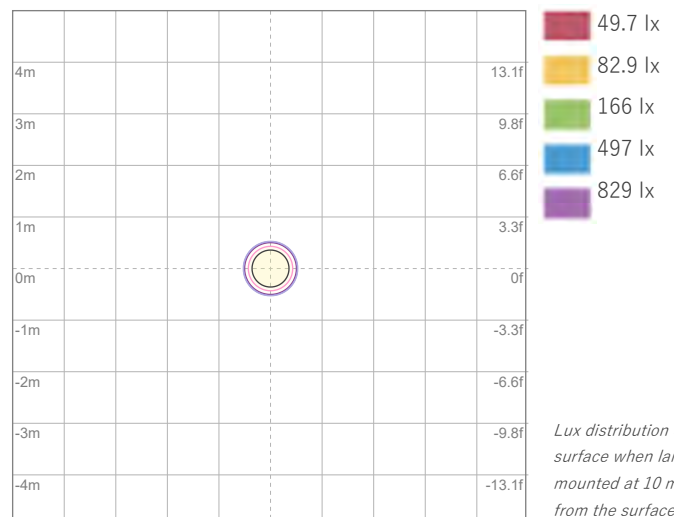


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 165720 cd



ISO LUX Diagram

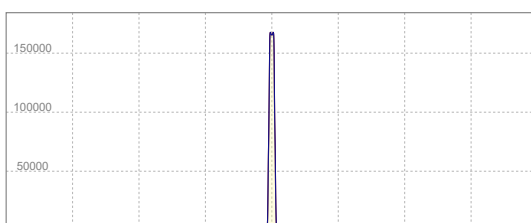
Conditions:

Number of c-planes: 8

LUX at center: 1657 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Linear Distribution



Peak Candela
167540 cd

Calculate Center Beam Intensities

$$\text{lux} = 167540 / \text{distance(m)}^2$$

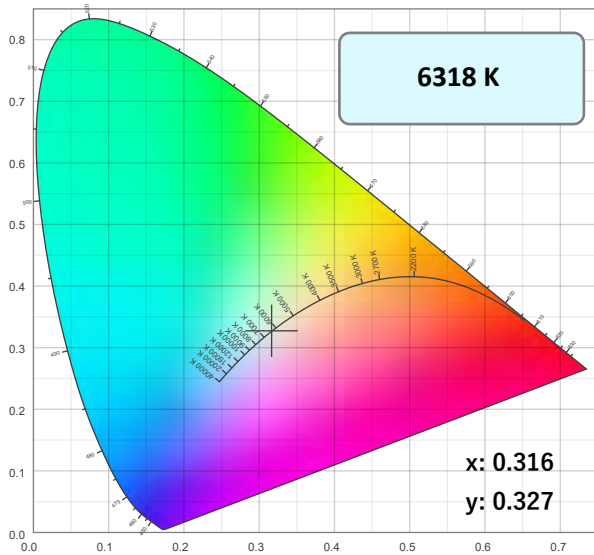
$$\text{fc} = 167540 / \text{distance(ft)}^2$$

Color Temperature: 6318K

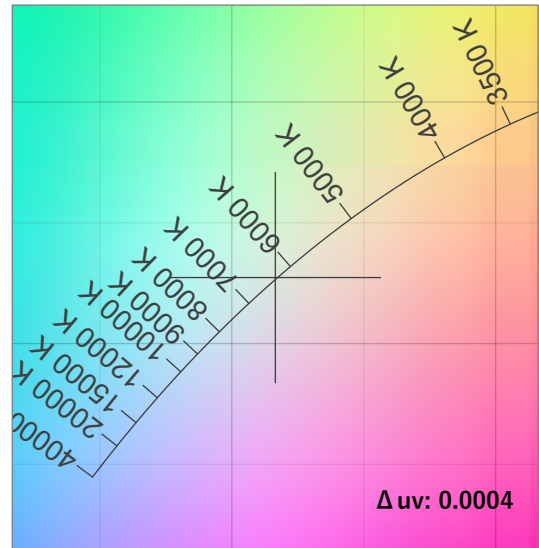
Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R _f	TM30 R _g	TLCI	CQS	x	y	Δuv	SSIt	SSId
79.6	18.9	79.2	97.8	70	77.4	0.316	0.327	0.0004	24	60

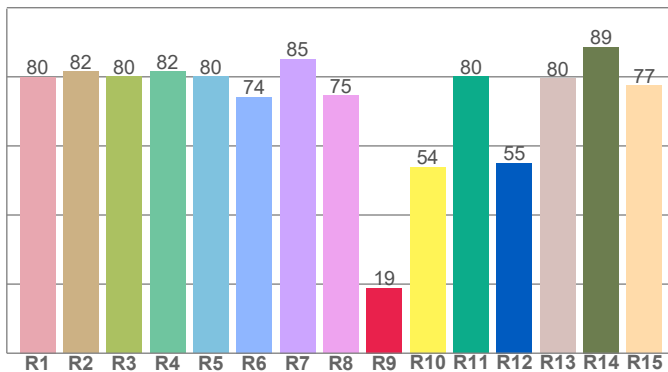
CIE 1931



CIE 1931 ZOOMED

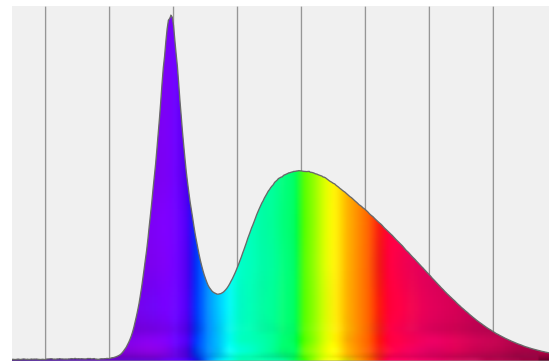


CRI: 79.6 (R1-R8)



Spectral Power Distribution (SPD)

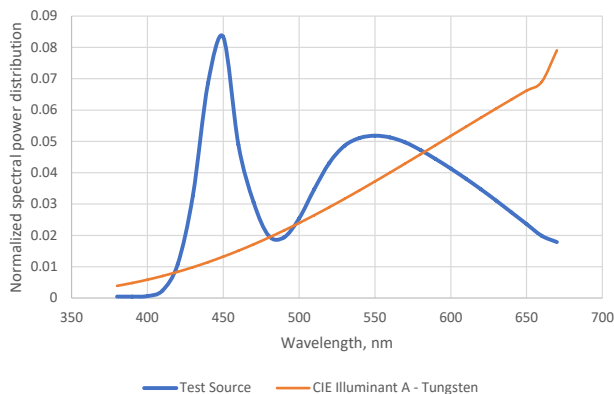
Dominant Wavelength 497 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 24

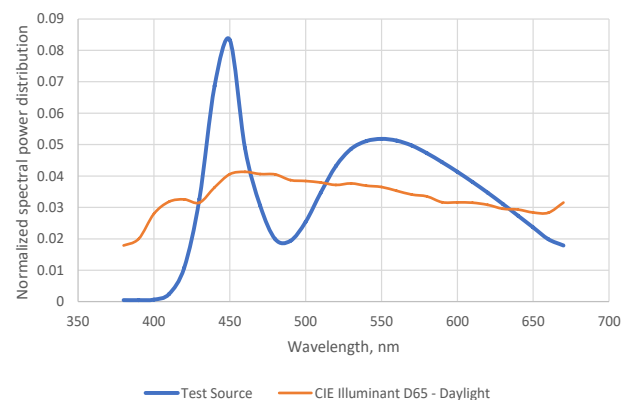
Spectral variance

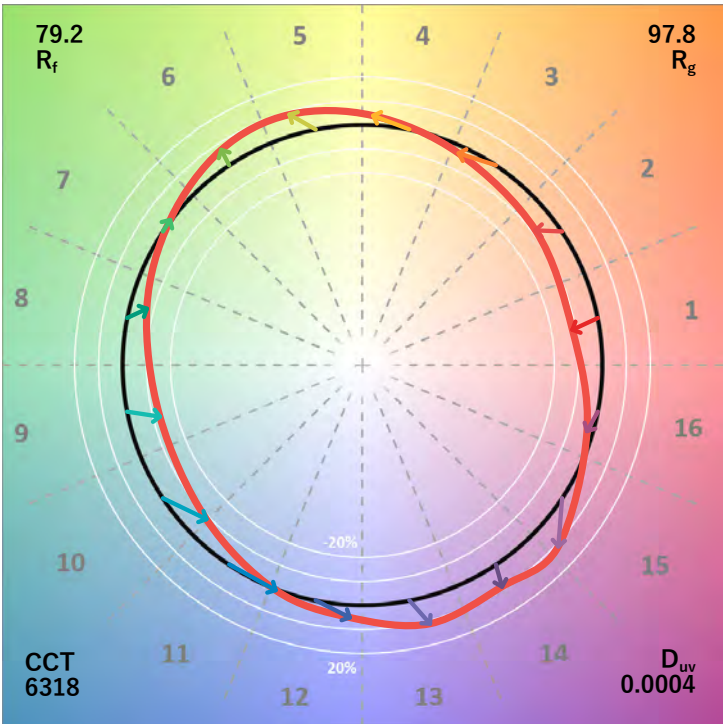


SSI Spectral Variance Graph- Daylight

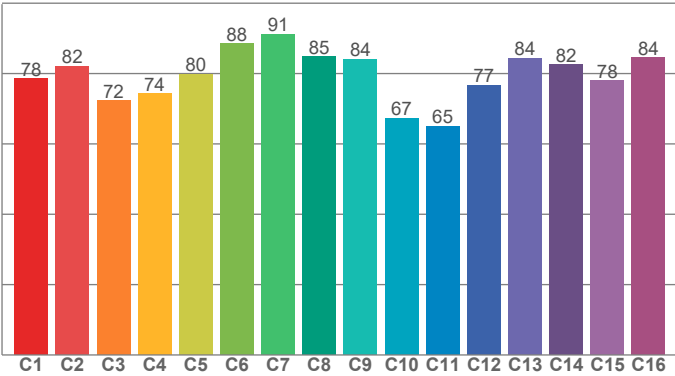
SSI [CIE D65] 60

Spectral variance

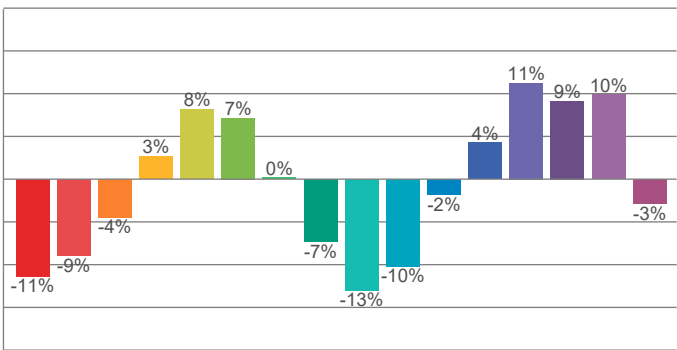




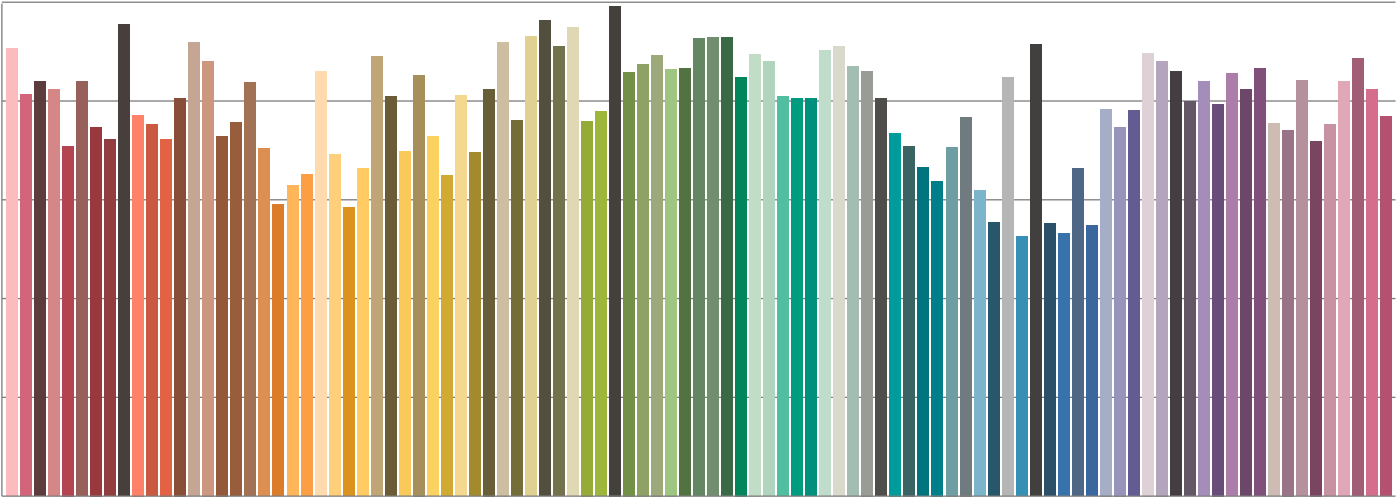
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)

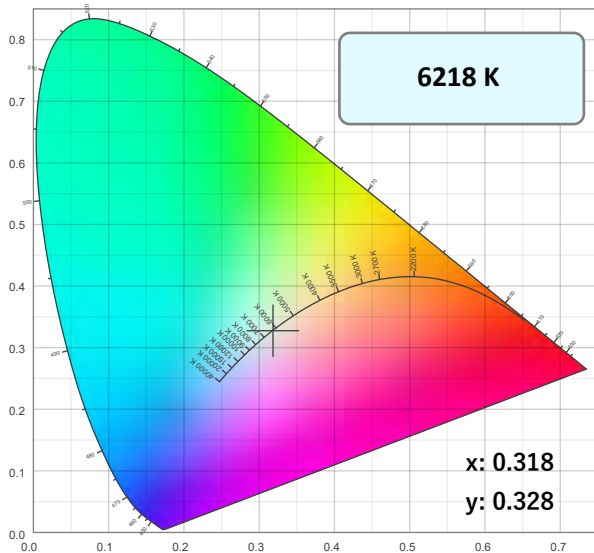


Color Temperature: 6218K

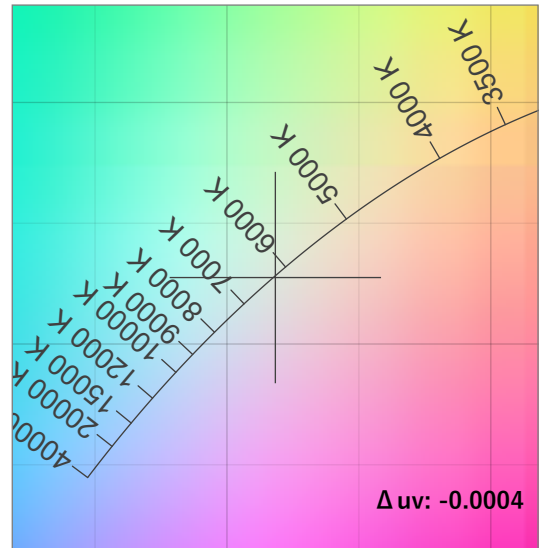
Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R _f	TM30 R _g	TLCI	CQS	x	Y	Δuv	SSIt	SSId
91.5	70.9	89.0	99.8	93	88.1	0.318	0.328	-0.0004	32	67

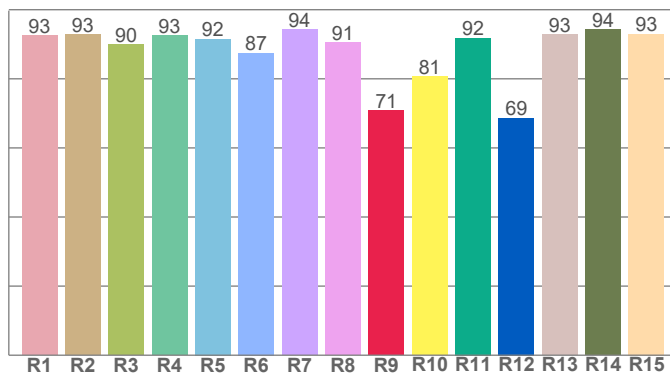
CIE 1931



CIE 1931 ZOOMED

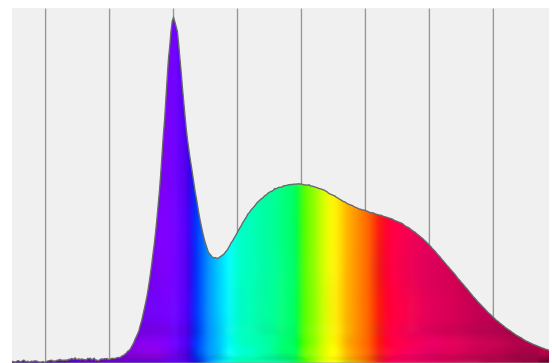


CRI: 91.5 (R1-R8)



Spectral Power Distribution (SPD)

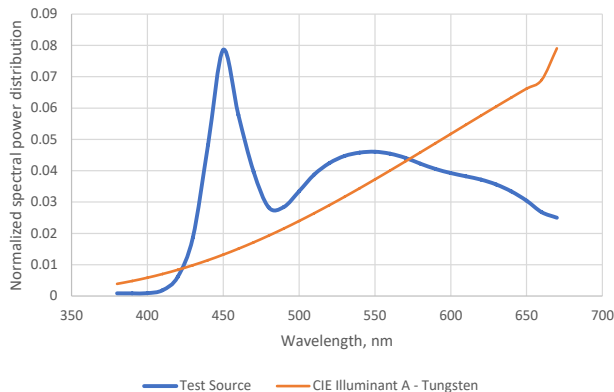
Dominant Wavelength 495 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 32

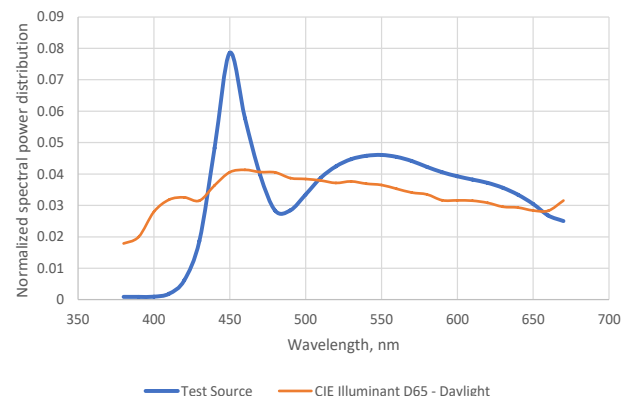
Spectral variance

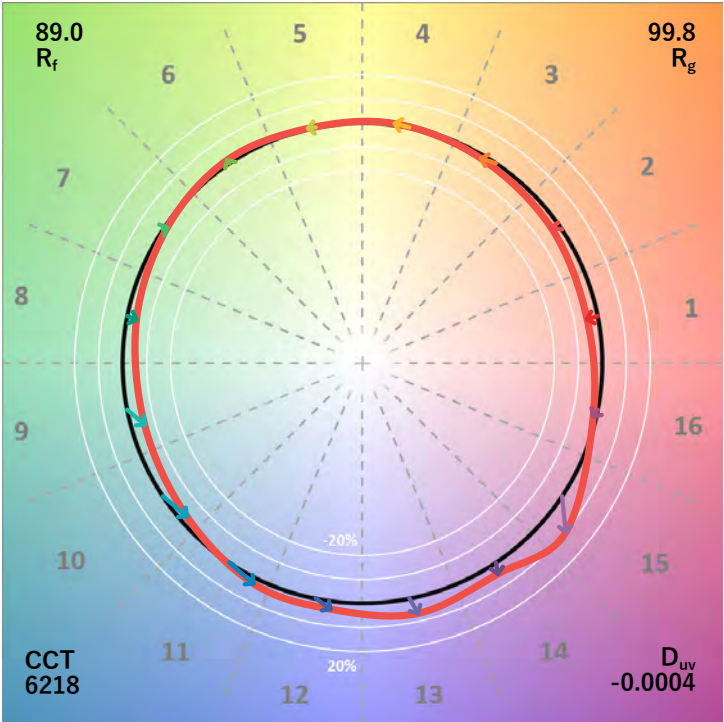


SSI Spectral Variance Graph- Daylight

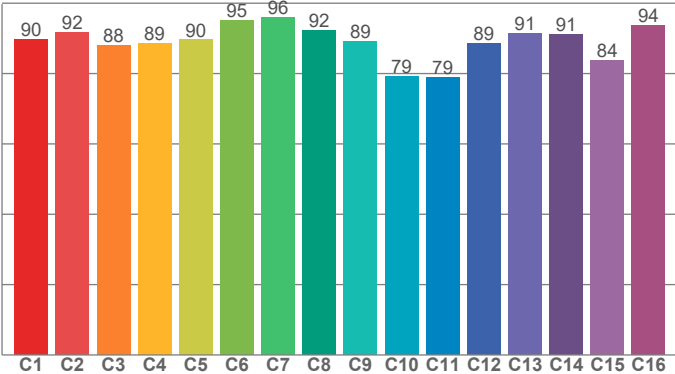
SSI [CIE D65] 67

Spectral variance

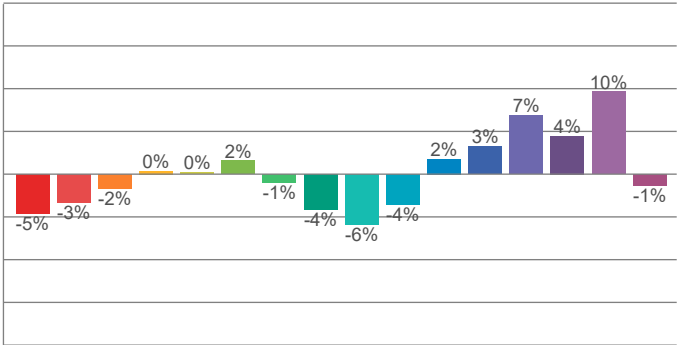




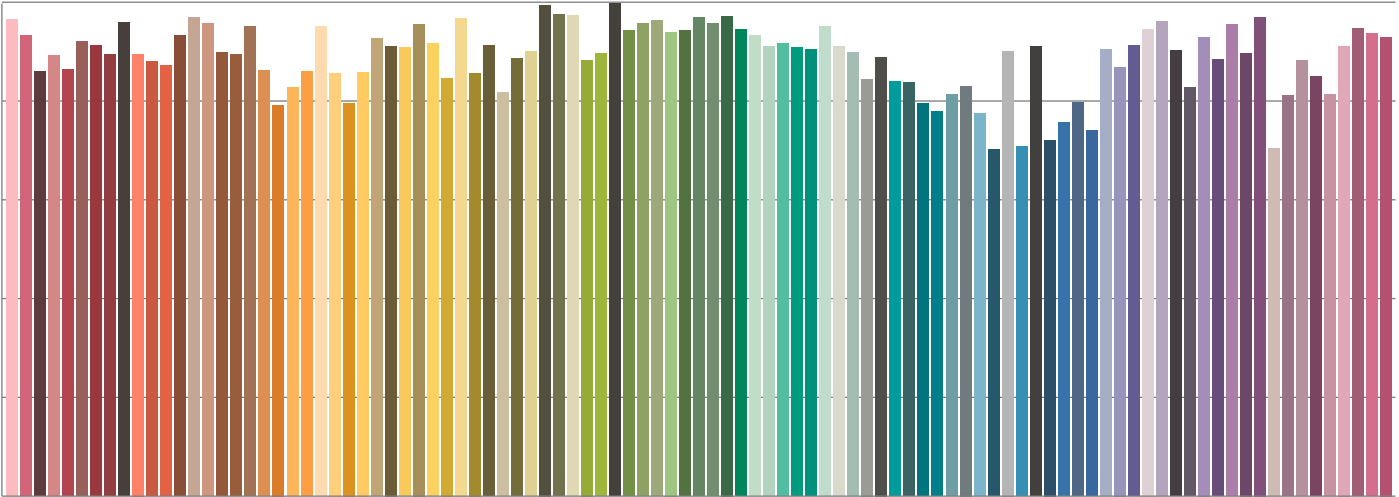
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)

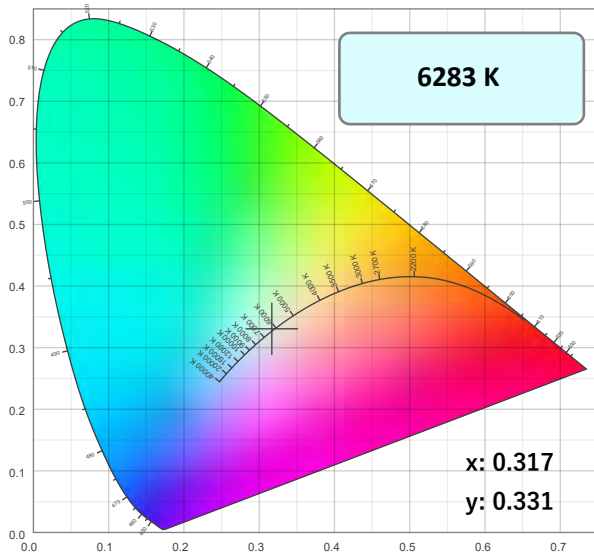


Color Temperature: 6283K

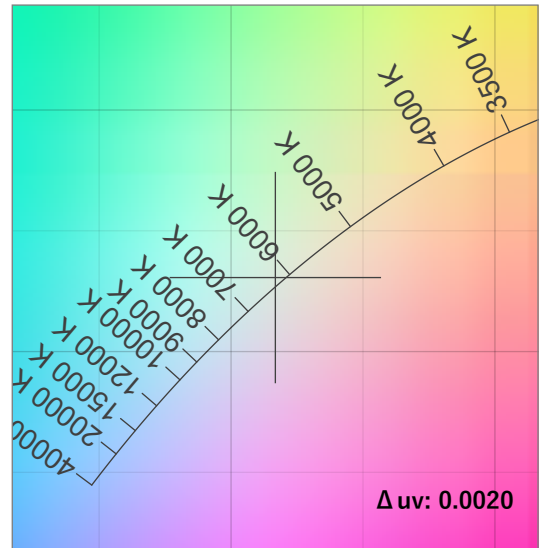
Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R _f	TM30 R _g	TLCI	CQS	x	y	Δuv	SSIt	SSId
70.6	-21.1	70.7	95.8	51	69.8	0.317	0.331	0.0020	12	50

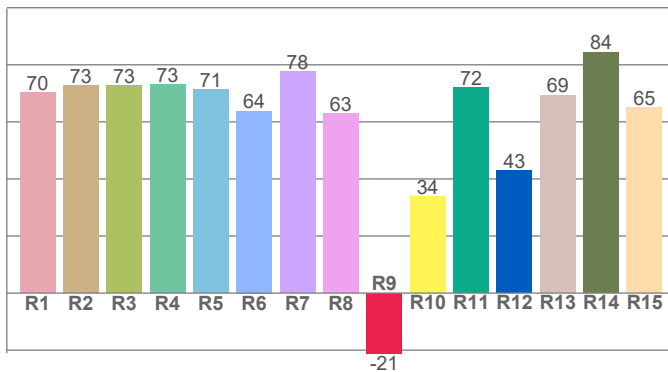
CIE 1931



CIE 1931 ZOOMED

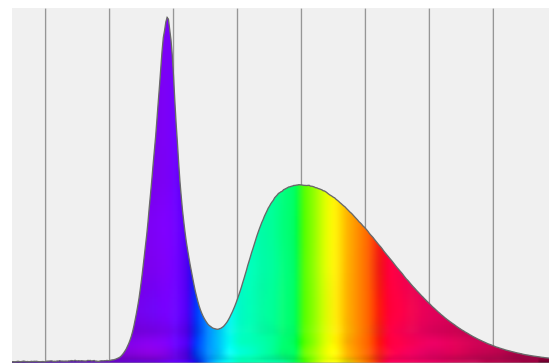


CRI: 70.6 (R1-R8)



Spectral Power Distribution (SPD)

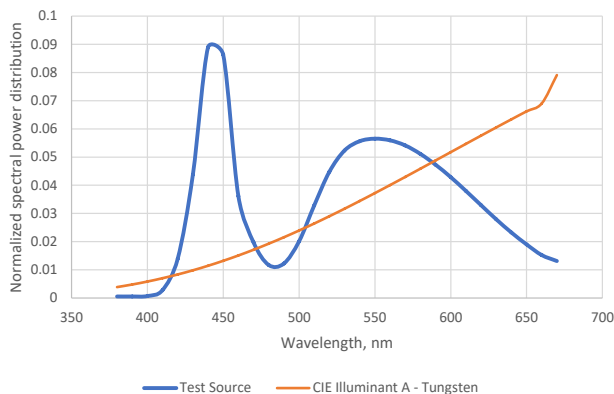
Dominant Wavelength 589 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 12

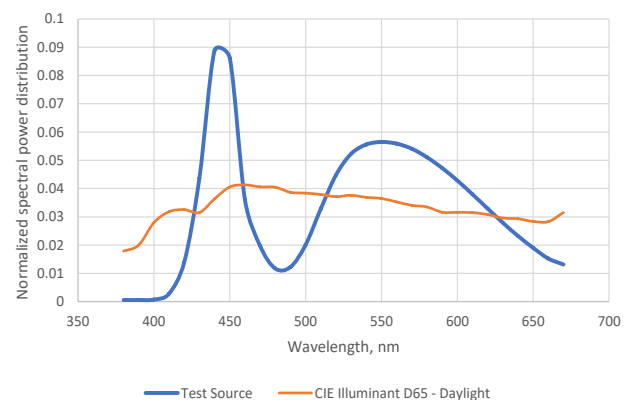
Spectral variance

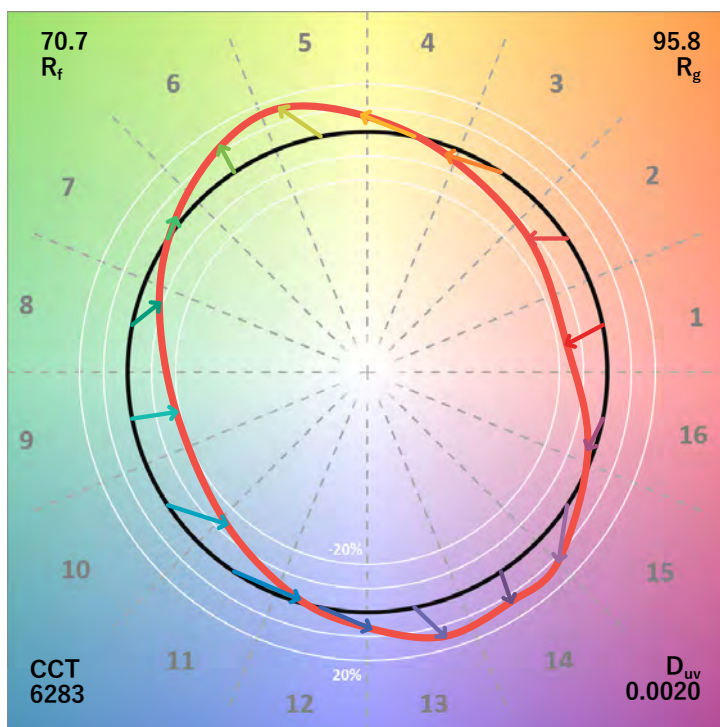


SSI Spectral Variance Graph- Daylight

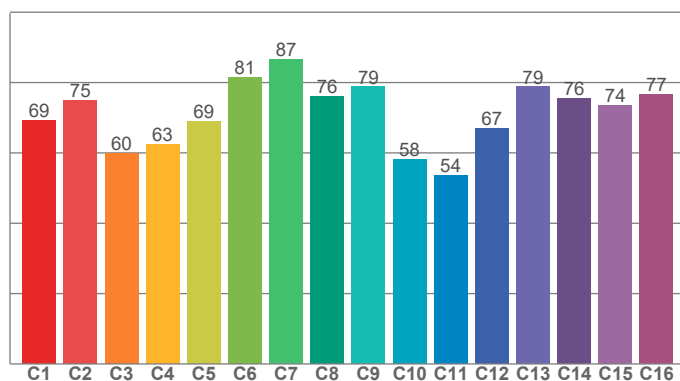
SSI [CIE D65] 50

Spectral variance

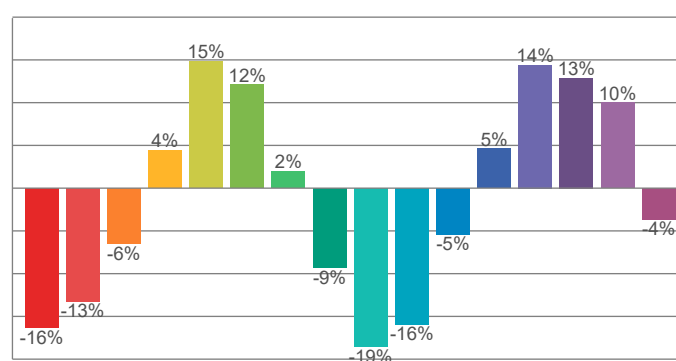




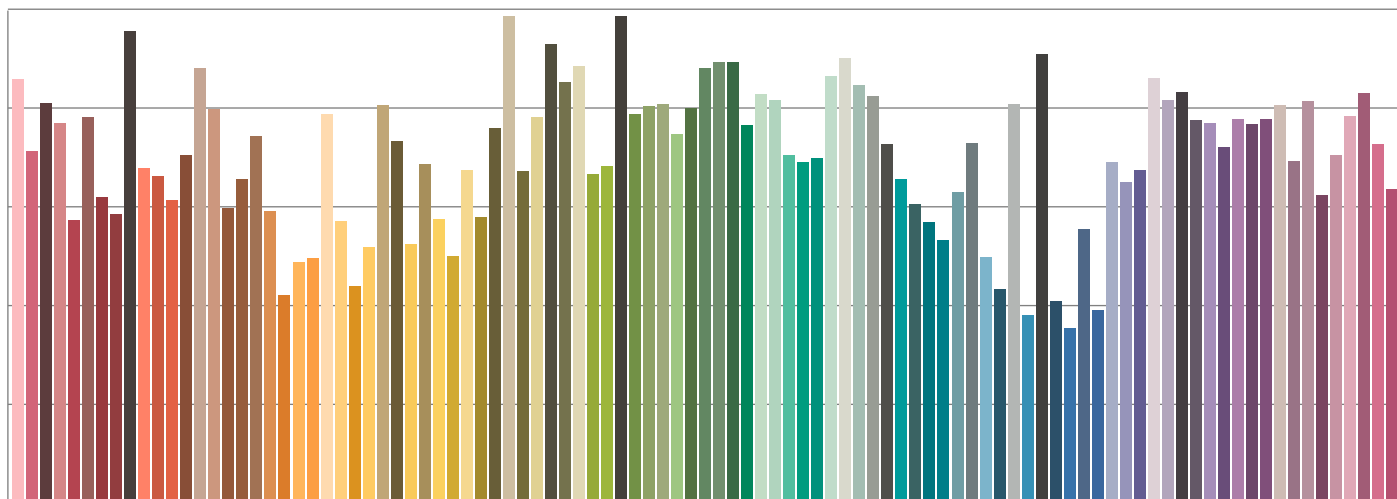
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)

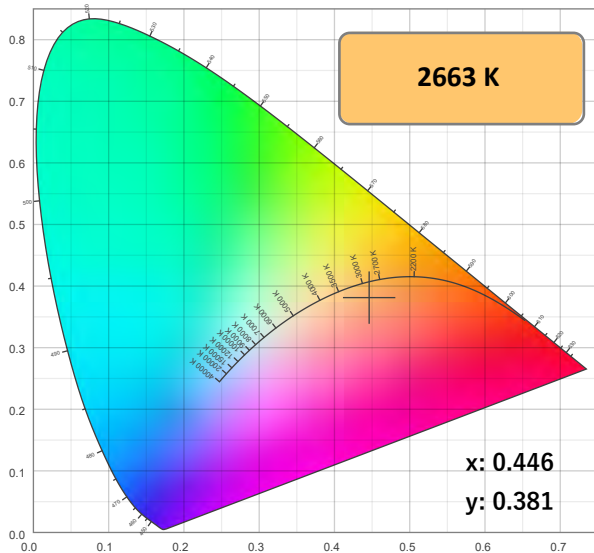


Color Temperature: 2663K

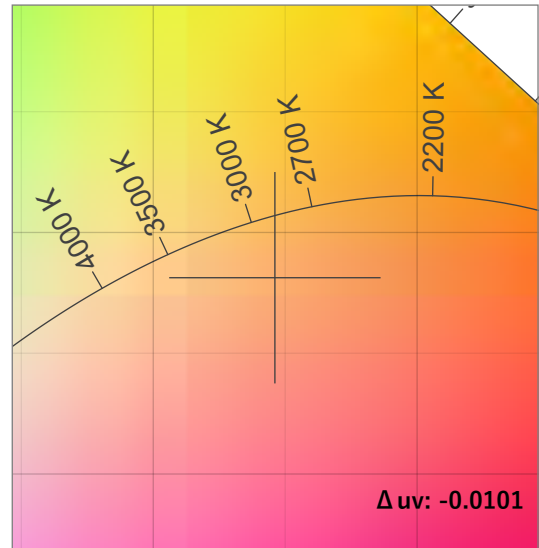
Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R _f	TM30 R _g	TLCI	CQS	x	Y	Δuv	SSIt	SSId
85.5	45.6	79.7	105.0	63	77.6	0.446	0.381	-0.0101	74	39

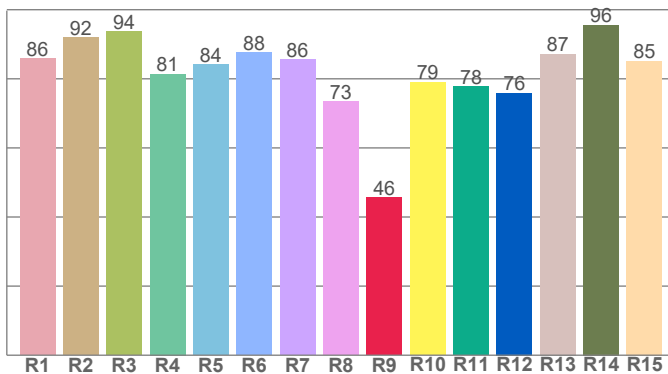
CIE 1931



CIE 1931 ZOOMED

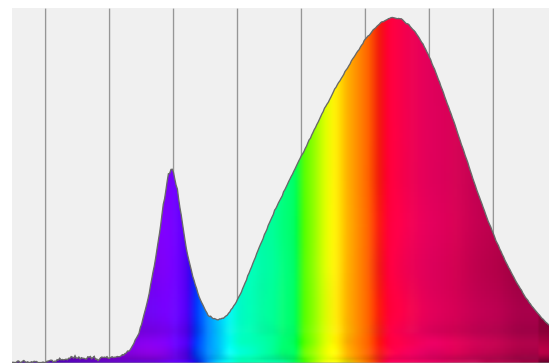


CRI: 85.5 (R1-R8)



Spectral Power Distribution (SPD)

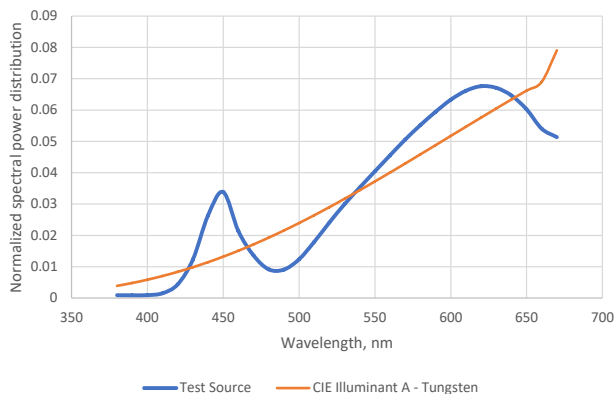
Dominant Wavelength 589 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 74

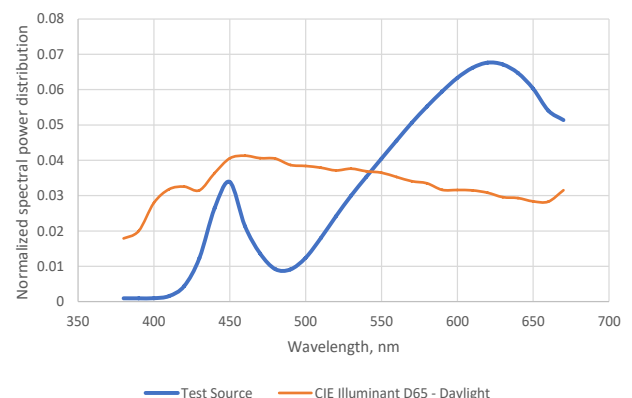
Spectral variance

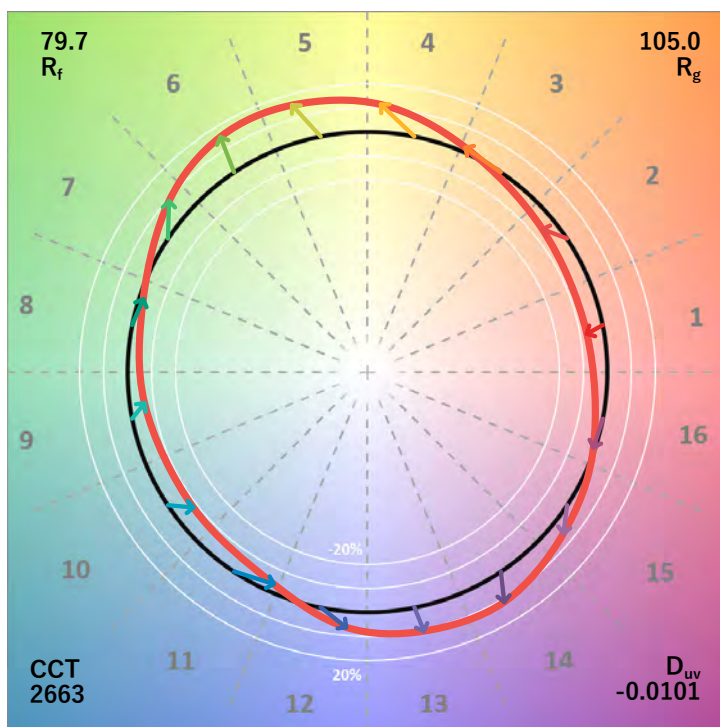


SSI Spectral Variance Graph- Daylight

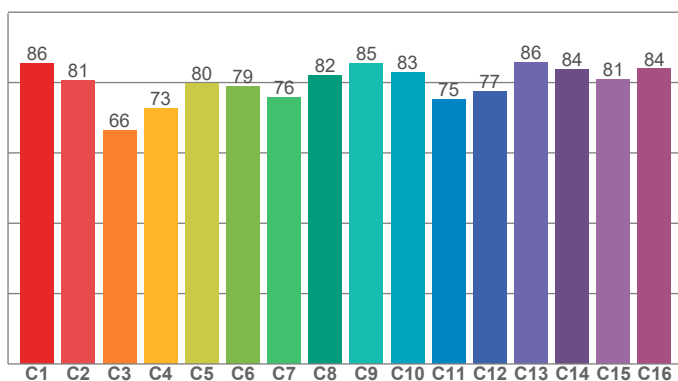
SSI [CIE D65] 39

Spectral variance

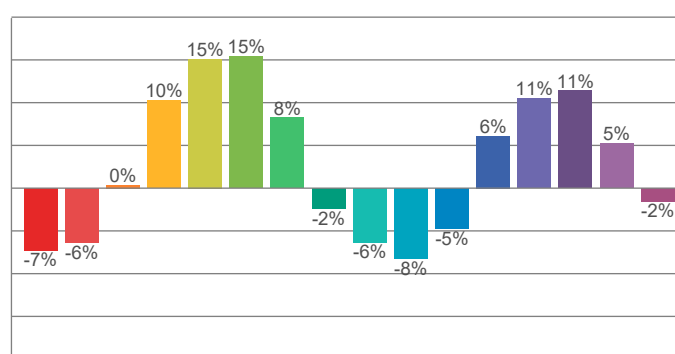




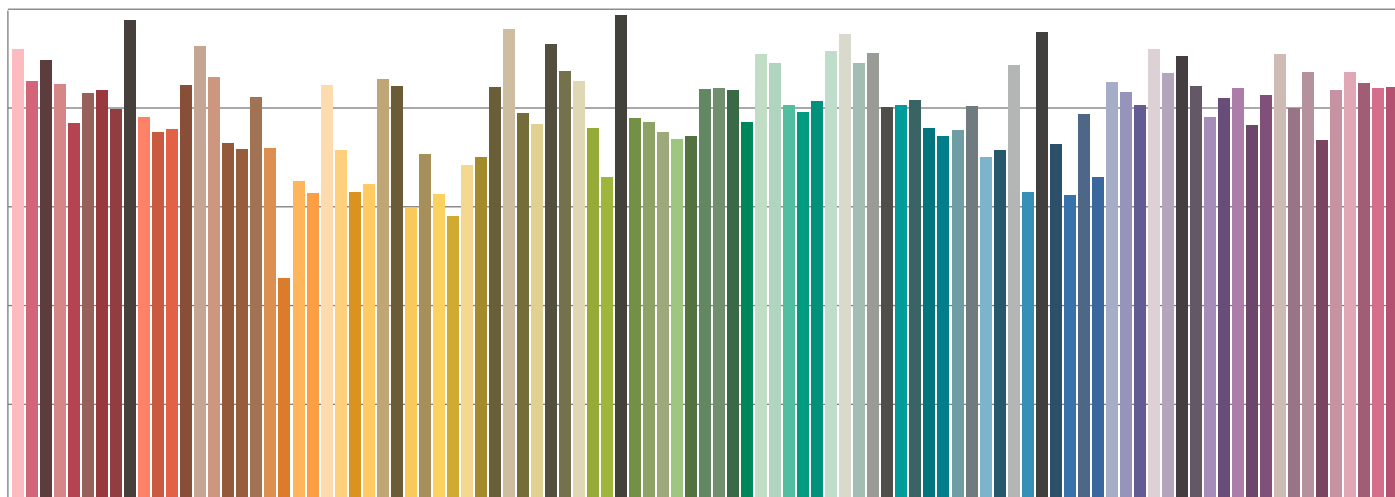
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)

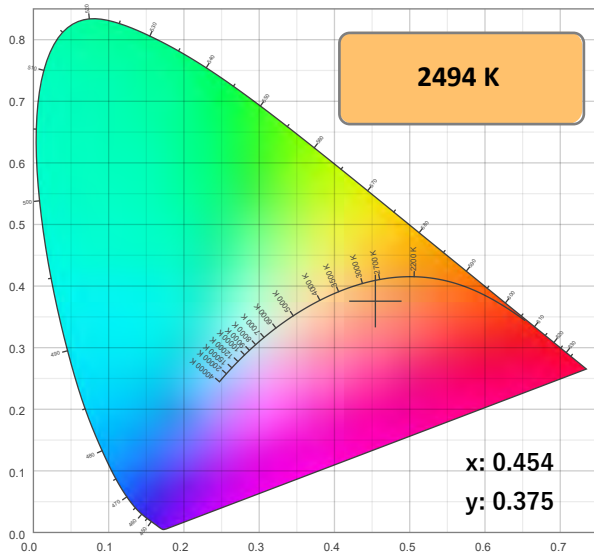


Color Temperature: 2494K

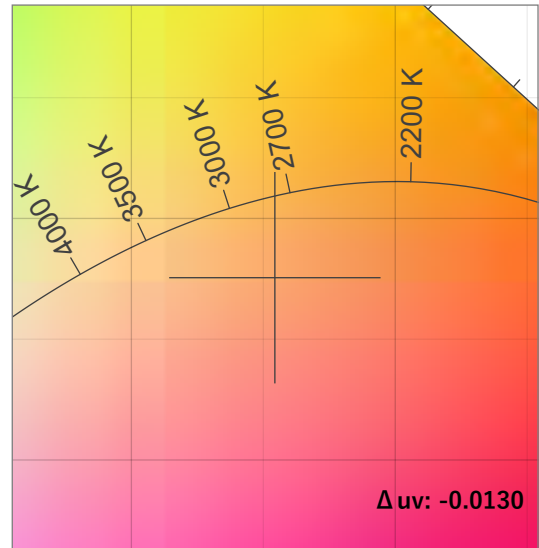
Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R _f	TM30 R _g	TLCI	CQS	x	y	Δuv	SSIt	SSId
94.1	83.9	87.0	108.9	79	83.2	0.454	0.375	-0.0130	80	36

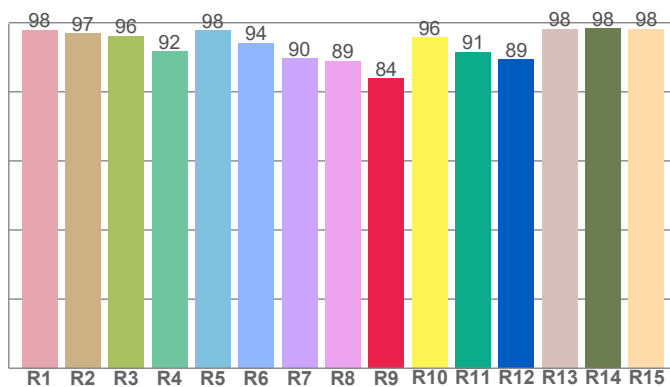
CIE 1931



CIE 1931 ZOOMED

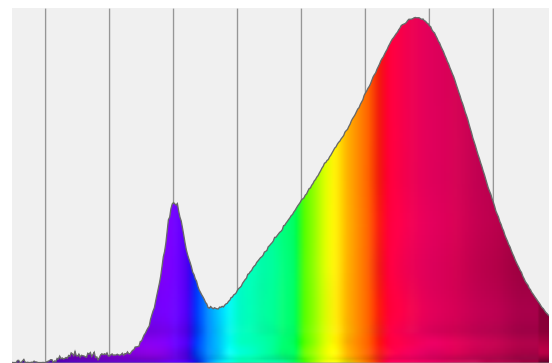


CRI: 94.1 (R1-R8)



Spectral Power Distribution (SPD)

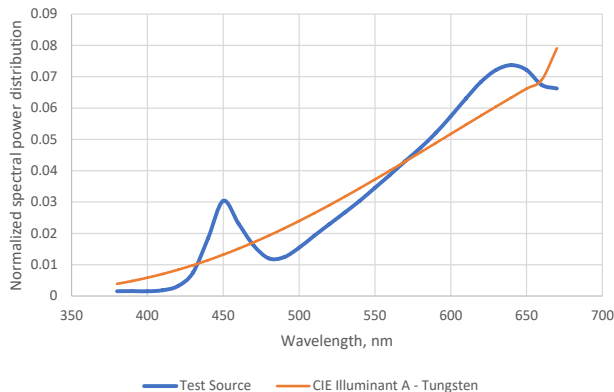
Dominant Wavelength 591 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 80

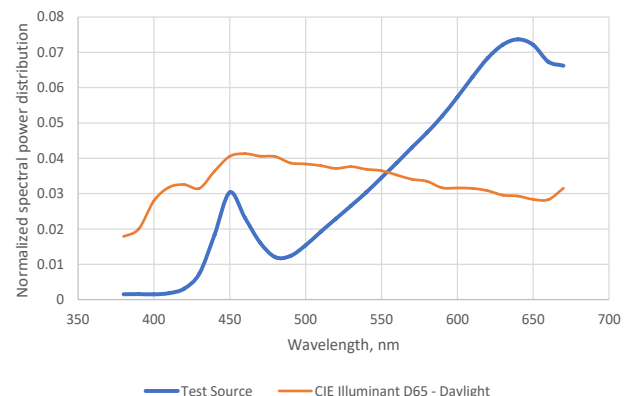
Spectral variance

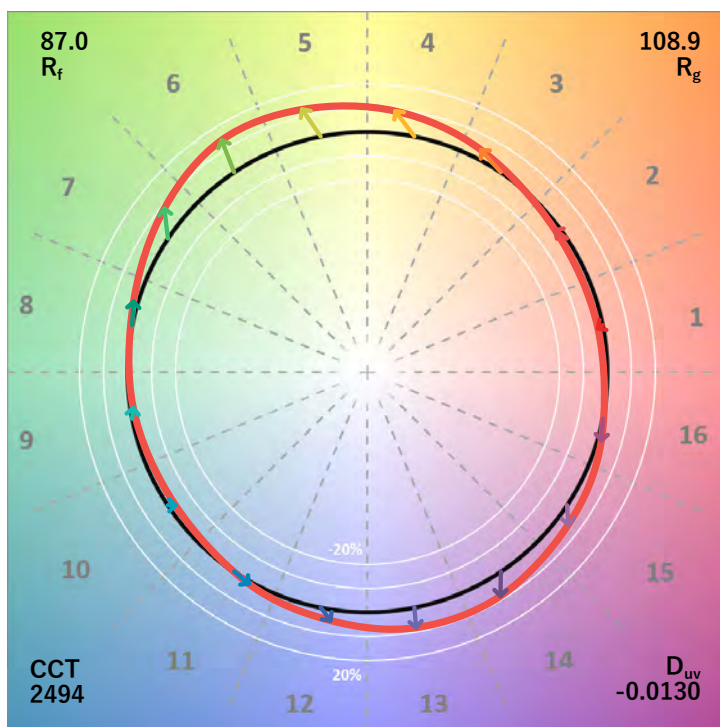


SSI Spectral Variance Graph- Daylight

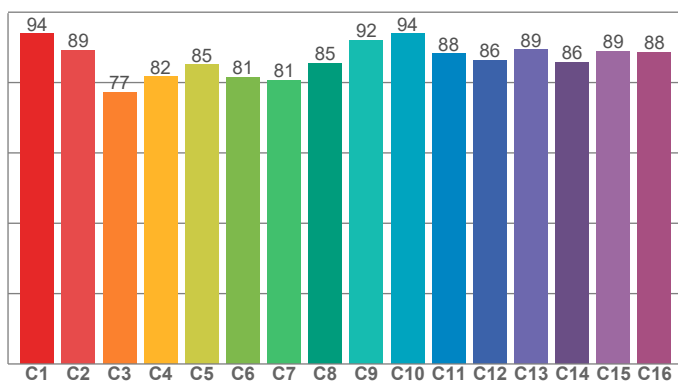
SSI [CIE D65] 36

Spectral variance

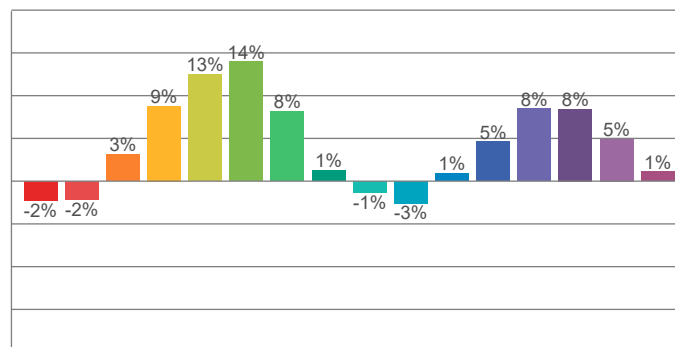




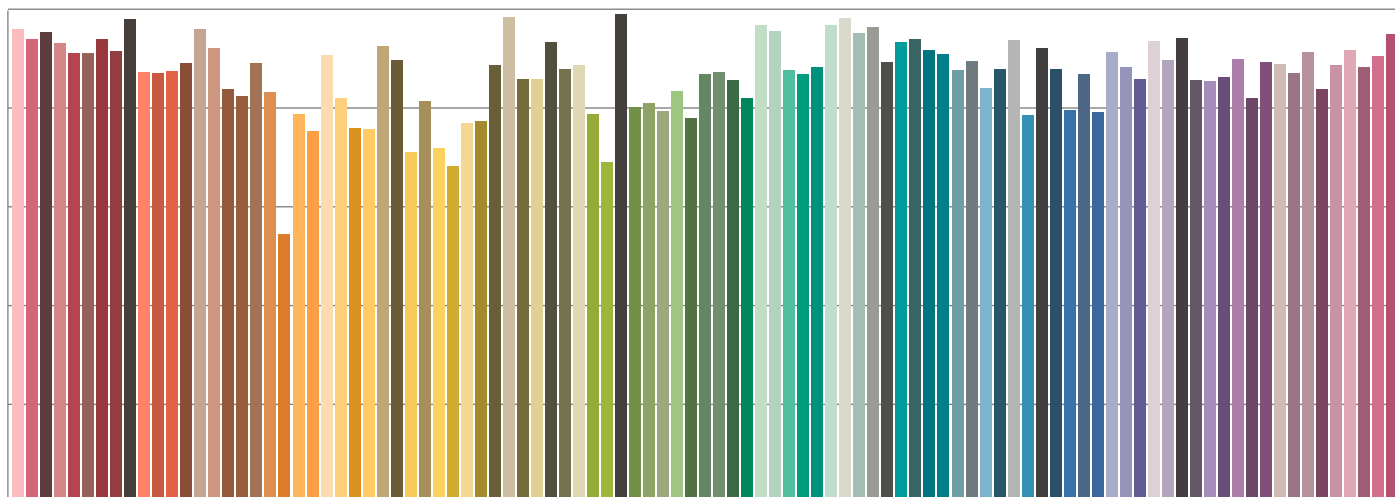
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)

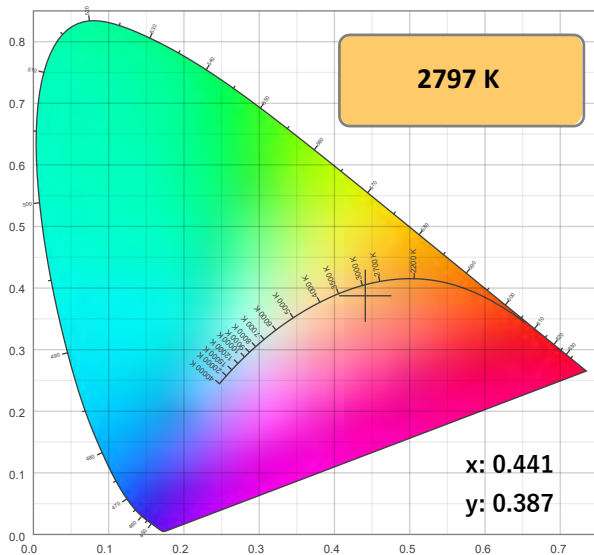


Color Temperature: 2797K

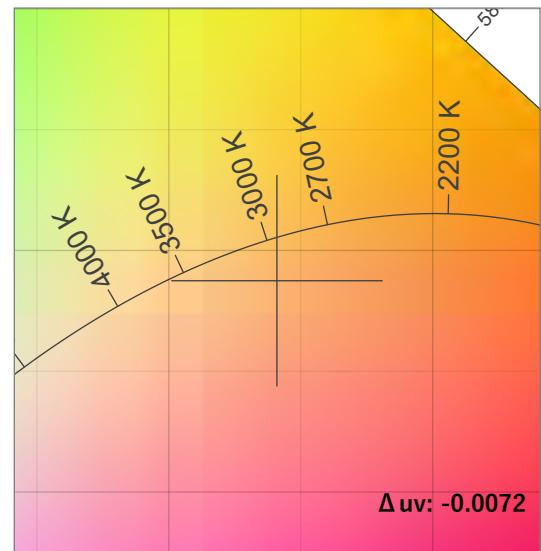
Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R _f	TM30 R _g	TLCI	CQS	x	y	Δuv	SSIt	SSId
77.9	16.5	73.6	102.4	48	72.6	0.441	0.387	-0.0072	67	39

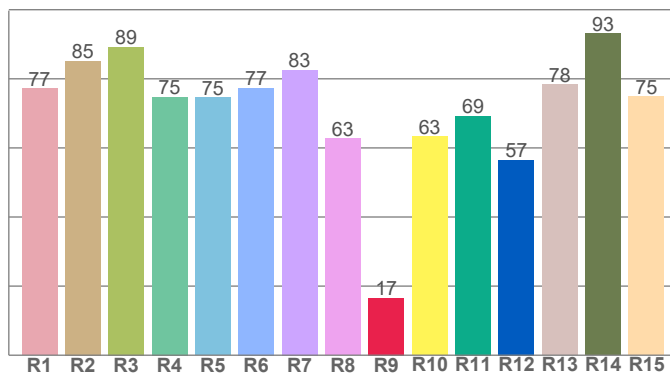
CIE 1931



CIE 1931 ZOOMED

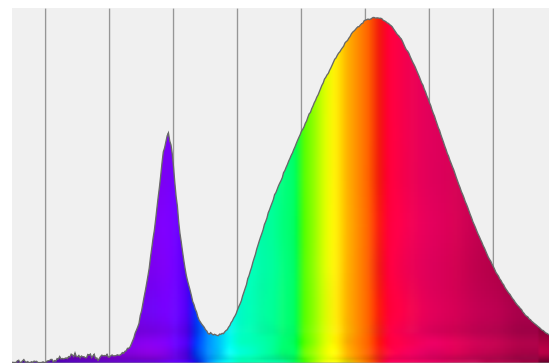


CRI: 77.9 (R1-R8)



Spectral Power Distribution (SPD)

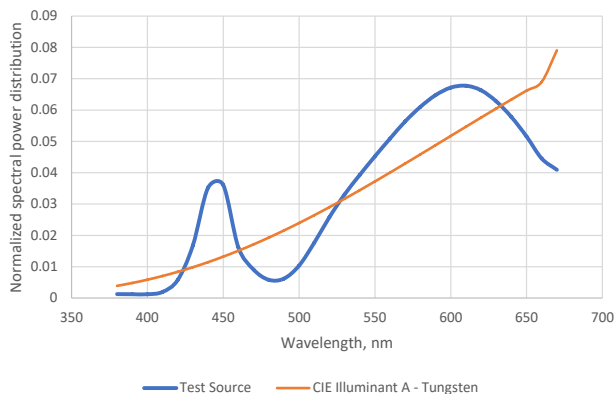
Dominant Wavelength 587 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 67

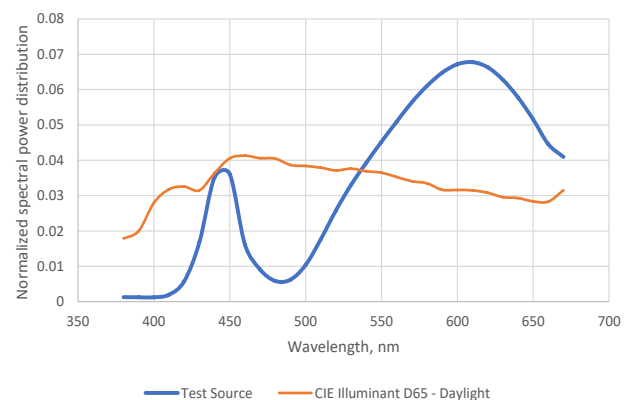
Spectral variance

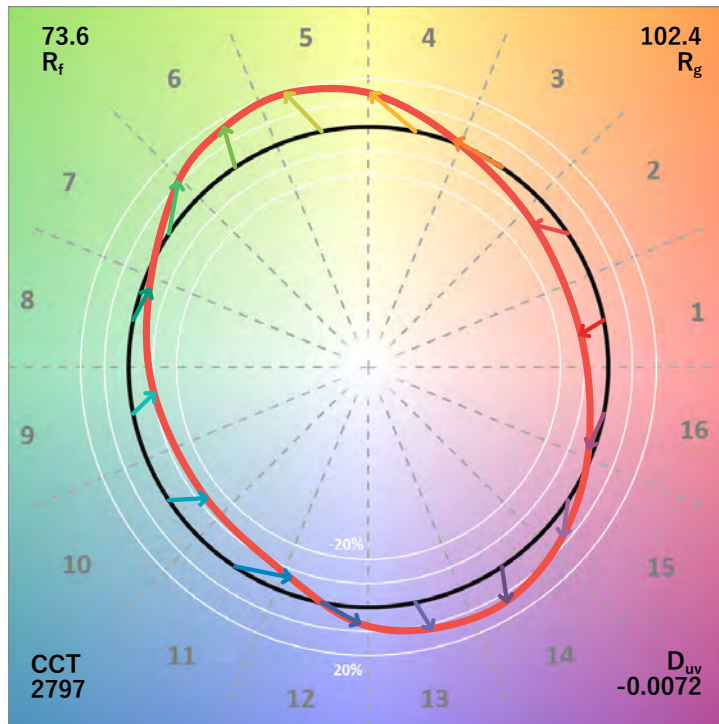


SSI Spectral Variance Graph- Daylight

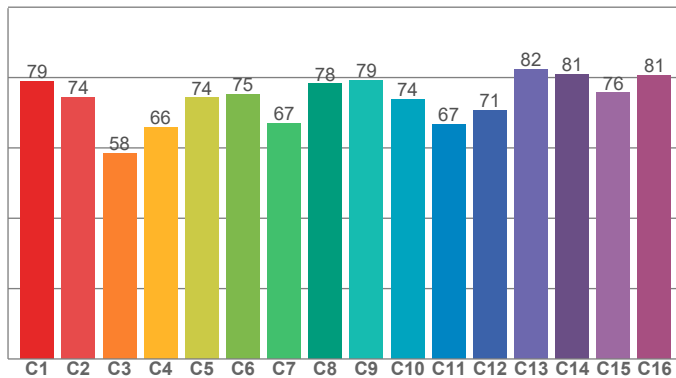
SSI [CIE D65] 39

Spectral variance

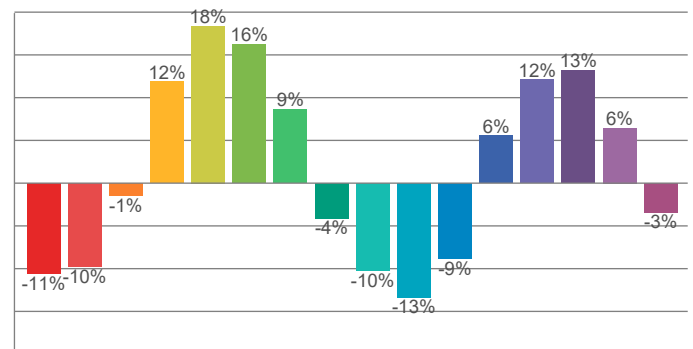




TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)

